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ABSTRACT

Reported are activities carried out at colleges and universities during 1976-1980 with support from the National Science Foundation's Local Course Improvement (LOCI) and Instructional Scientific Equipment Program (ISEP). It is intended as a reference for persons interested in current course and laboratory developments in the sciences at the undergraduate level. The guide contains two sections. The first section is a comprehensive Subject Index permitting ready reference to a large array of undergraduate science activities. The index contains project descriptions, project titles, key subject terms, and equipment names for 804 projects, and is organized alphabetically by keyword. The second section is a complete Project Roster, organized alphabetically by state, and within each state by institution, of all 961 LOCI/RULE and ISEP awards made in the indicated years. The name and telephone number of the project director are provided for those projects for which inquiries are invited by the project director. (Author/HM)

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A GUIDE TO UNDERGRADUATE SCIENCE COURSE AND LABORATORY IMPROVEMENTS

National Science Foundation
Science Education Directorate

Local Course Improvement — LOCI
Instructional Scientific Equipment — ISEP

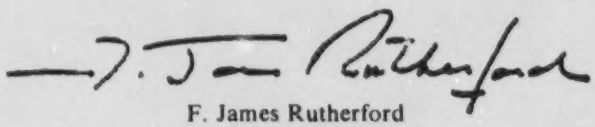
SE 029 338

FOREWORD

The National Science Foundation's Directorate for Science Education is keenly aware of the importance of quality undergraduate science instruction to the health of science and our society. In recognition of this, the Local Course Improvement and the Instructional Scientific Equipment Programs and other Foundation programs are intended to provide incentives for science course and laboratory improvements so that all citizens (scientists or not) can benefit from scientific advances both at work and in their personal lives.

This Guide is designed to facilitate exchanges of information on laboratory and course developments among college science faculty. We hope in this way to increase the ultimate impact of these programs and further insure the highest quality of science instruction in our Nation's colleges and universities.

We urgently request that users of the Guide and others with observations about it assist us in determining its effectiveness by completing and returning the response form on the back cover.



F. James Rutherford
Assistant Director
for Science Education

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INTRODUCTION

This book has two purposes. It is a report of activities carried out at colleges and universities during 1976-1980 with support from the National Science Foundation's Local Course Improvement (LOCI) and Instructional Scientific Equipment (ISEP) Programs. More importantly, it is intended as a reference for persons interested in current course and laboratory developments in the sciences at the undergraduate level.

The information in this book was collected by means of questionnaires sent to project directors of all grants awarded under the ISEP program in 1976 and 1977, and those awarded during the period from 1975 through 1978 in LOCI (known during part of that period as RULE—Restructuring the Undergraduate Learning Environment). A copy of the questionnaire appears in the Appendix. A total of 804 projects are referenced in this Guide. These data were processed, and the Index pages produced, by the Chemical Abstracts Service of Columbus, Ohio, a division of the American Chemical Society.

The book contains two sections. The primary section is a comprehensive SUBJECT INDEX permitting ready reference to a large array of undergraduate science activities. The index contains project descriptions, project titles, key subject terms, and equipment names for 804 projects, and is organized alphabetically by keyword. The SUBJECT INDEX contains 11,273 separate entries, an average of 14 separate subject listings per project. Directions for using the SUBJECT INDEX are given on page 00.

The second section of the book is a complete PROJECT ROSTER, organized alphabetically by state, and within each state by institution, of all 961 LOCI/RULE and ISEP awards made in the indicated years. The name and telephone number of the project director are provided for those projects for which inquiries are invited by the project director. Instructions for using the PROJECT ROSTER are given on page 00.

A user may first locate a subject term, activity or other project feature of interest in the SUBJECT INDEX, and then, by referring to the PROJECT ROSTER, find more detailed information relating to project objectives and results.

Following are some of the many uses that might be suggested for the Guide:

- To suggest new ideas for undergraduate science instruction.
- To provide a "Consumers Guide" to instructional scientific equipment by furnishing source-of-product information from users.
- To help users of scientific equipment exchange information about unusual applications, inexpensive shortcuts, ideas for modification, etc.
- To identify individuals with common interests or expertise for information exchange or consortial arrangements.
- To provide a roster of individuals who are potential speakers, consultants, reviewers, referees, evaluators, and employment candidates, or who can meet other human resources needs.
- To increase the quality of future grant proposals by facilitating local review and evaluation by individuals with related experience in undergraduate science education.
- To assist policymakers in government and education in assessing the impact of NSF undergraduate science improvement programs.
- To spread the benefits of the tax dollars already invested in these programs, while increasing the efficiency of future funding actions by helping them avoid duplication of the efforts of curriculum innovators represented here.

Statistical information gathered from the project directors about the ISEP and LOCI/RULE projects included in this volume is presented in the Appendix in the form of summary tables. As

these tables show, the average ISEP award is under $10,000, the average LOCI/RULE grant is approximately $16,000, and the projects listed in this book account for approximately 11.3 million dollars in Foundation support for science education.

It is interesting to note from Table III that persons who are *not* aiming at science careers account for nearly half of the students perceived to benefit from these projects. Table III also shows that significant numbers of women, minority, and handicapped students are benefiting from the two programs. Table IV contains information on the faculty directors of the projects. The ISEP or LOCI award represents the first Federal support for one-third of these faculty, and the first NSF award for one-half of them.

At the time this Index was developed Robert F. Watson was Program Director and Joan Straumanis was Program Associate (on leave from Denison University) for ISEP and LOCI. It is our belief that many of these projects involve imaginative and creative approaches to problems in undergraduate science instruction. We hope that the wealth of information contained herein is of use throughout the scientific academic community.

Joan Straumanis and Robert F. Watson, Editors

ACKNOWLEDGEMENT

The efforts of many people have contributed to the development of this Guide. Primary credit, of course, must go to the science faculty who conceived the projects on which the Guide is based. Their participation was also necessary for the production of the book, and they and their students are the intended beneficiaries and ultimate judges of its value.

Many Foundation staff contribute to the quality and operation of programs such as LOCI and ISEP. At the time the Guide was developed, LOCI and ISEP program staff included program officers, Dr. Donald C. McGuire and Dr. Oscar N. Garcia (on leave from the University of South Florida), and secretaries, Mrs. Maria Bouyat and Ms. LaVerne Paige. Dr. Walter L. Gillespie was Director, and Dr. Terence L. Porter was Deputy Director of the Division of Science Education Resources Improvement. Other Division staff who contributed technical and clerical services to these programs included Ms. Jane Stutsman, Miss Julia Diggs, Ms. Fran Kiley, Mrs. Pat Sickles, and Mrs. Dorothy Greene.

The participation of Chemical Abstracts Service, Columbus, Ohio, a division of the American Chemical Society, in the development of the index materials is gratefully acknowledged.

ABOUT LOCI AND ISEP

Several serious problems are jeopardizing the continuing vitality and practical effectiveness of undergraduate science instruction. Rapidly increasing scientific knowledge and the proliferation of technological problems of national concern (energy, the environment, scarcity of minerals, etc.) have sharply increased our need for science instruction that is timely and responsive to the Nation's problems. We must ensure that all students receive useful training which will prepare them for the decisions they will face as citizens.

Also, in recent years students enrolling in science courses have become more diverse in their interests and ambitions, and with regard to their capabilities and prior training. Much work has been done, and some progress has been achieved in our attempts to better understand the way people learn. As a consequence, new and better methods of managing and delivering science instruction need to be developed and tested.

Three characteristics of these needs should be emphasized: They are frequently highly focused in a single course or course sequence, they are highly diverse, and they are occurring rapidly.

The National Science Foundation, through its Division of Science Education Resources Improvement, offers programs designed to improve the capabilities of schools, colleges, and universities to provide education and research training in the sciences. The common purpose of these programs is to strengthen the resources of educational institutions so that citizens they train (whether scientists or not) can understand and beneficially use science at work and in their personal lives.

The Local Course Improvement (LOCI) and Instructional Scientific Equipment (ISEP) Programs complement other Division programs by providing colleges and universities with the capability for responding rapidly to science teaching problems which are sharply focused, typically in a single course. In addition, these programs serve to enhance science teaching vitality by functioning as an incentive for science faculty to pursue imaginative ideas in upgrading their instruction. The programs provide grant mechanisms and consequent motivation for quality undergraduate science teaching analogous to those which support quality research.

The specific objectives of the Local Course Improvement (LOCI) program are:

- to insure that institutions are capable of introducing undergraduate students to important current scientific and technological developments and of developing improved methods for presenting scientific concepts and applications;
- to improve the pre-service training of science and mathematics teachers through the modification of specific courses (emphasizing both science content and pedagogy) by individual faculty.

LOCI provides awards on a competitive basis for science faculty members to make short-term concentrated efforts at improving their undergraduate science instructional programs. The program seeks a broad distribution of awards nationally and across the various scientific and engineering disciplines. Grants are relatively modest in size. In FY 1978 the largest award was $25,000, the smallest was $1,400, and the average was $16,700. In FY 1978, 135 awards were made in response to 451 proposals requesting $8 million in assistance.

Projects typically concentrate on the design, preparation, and evaluation of new materials or laboratory experiments. Projects may focus on any undergraduate instructional activity in science, including courses intended for science majors, nonscience majors, those preparing specifically for careers as teachers of elementary and secondary school science, or students preparing for technological careers.

The specific objectives of the Instructional Scientific Equipment Program (ISEP) are:

- to encourage and support the introduction of modern "hands-on" experiences for undergraduate students in science and engineering laboratories;
- to encourage and support incorporation of current educational technology into science instruction.

Realistic laboratory experience is a proven technique for effective training of science and engineering students. Without the opportunity to perform experiments, to collect and analyze data, and to test conclusions, science training becomes an abstract textbook experience which bears little relationship to the actual practice of science.

Improvement of undergraduate education in science is achieved by incorporating new materials and more effective instructional strategies into science courses. These improvements frequently involve the use of modern scientific and instructional equipment. The ISEP program provides support to purchase such equipment in support of curriculum improvements. The maximum award is $20,000, and matching funds on a dollar-per-dollar basis from the grantee institution are required. Competition is intense. In FY 1978, 352 awards were made in response to 1,515 proposals requesting $17.6 million.

HOW TO USE THE INDEXES

Two Indexes comprise the Guide. The first is an alphabetical SUBJECT INDEX of keywords; the second is a complete PROJECT ROSTER arranged alphabetically by state and institution name, and numbered sequentially from 1 to 961. (Schools which are component units of multiunit systems are alphabetized according to the name of the *system*, e.g. "California State University and Colleges."

THE SUBJECT INDEX

Entries in the SUBJECT INDEX are of three different types:

a) Descriptive project titles and arrangements of these, featuring each of the keywords in the title.

Example: *Biochemistry* laboratory emphasizing current research techniques

b) Laboratory and other instructional equipment, listed by brand and generic names, and other significant terms.

Examples: *Turner* 330 single beam spectrophotometer
Spectrophotometer, single beam, Turner 330

c) Additional keywords and short phrases describing teaching strategies, disciplines and subdisciplines, target students, and other project characteristics, followed in each case by the complete descriptive title of the project.

Examples: *Intermediate technology:* Biochemistry laboratory emphasizing current research techniques

Protein analysis: Biochemistry laboratory emphasizing current research techniques

Nucleotide analysis: Biochemistry laboratory emphasizing current research techniques

Oxygen monitoring: Biochemistry laboratory emphasizing current research techniques

Chemistry: Biochemistry laboratory empahsizing current research techniques

Each SUBJECT INDEX entry, whatever its type, ends in an *access number.* This number references the location of the project listing in the PROJECT ROSTER, and contains coded information useful to readers wishing to screen projects in the SUBJECT INDEX for geographical or disciplinary information. (Please refer to the list of abbreviations used in access numbers at the conclusion of these instructions.)

For example, the *access number*

CA/CH 56

indicates that the project is located in California (CA), the main discipline involved is chemistry (CH), and the project is the 56th listed in the PROJECT ROSTER. It will be found in numerical sequence among the California entries.

THE PROJECT ROSTER

Each listing in the PROJECT ROSTER contains the following information (keyed here to the sample entry below, the same one from which all of the SUBJECT INDEX examples used earlier were borrowed):

(a) CA/CH 56
(b) ISEP
(c) SER 77-09818
(d) California State University-Northridge
Department of Chemistry
Northridge, CA 91330
(e) Robert G. Wolcott (213) 885-3370
(f) Biochemistry laboratory emphasizing current research techniques
(g) Turner 330 single beam spectrophotometer
YST 53 oxygen meter
Quartz halogen lamps for uv operation of Turner spectrophotometer
(h) Intermediate technology; Technician training; Protein analysis; Nucleotide analysis; Oxygen monitoring; Chemistry

Items Code

(a) State or territory, and main discipline of the award (coded into the *access number* - see above).
(b) National Science Foundation program (ISEP or LOCI/RULE).
(c) NSF project number.
(d) Recipient institution, department and address.
(e) Name and current phone number of the project director.
(f) Descriptive title of the project.
(g) List of main equipment items purchased under the award. (Note: Inclusion of equipment items in this Index in no way implies endorsement by the National Science Foundation.)
(h) List of all additional descriptive keywords entered for this project in the SUBJECT INDEX.

Together, these items provide a quick but detailed summary of the listed project.

Obtaining Further Information about Projects

Information about project details and project outcomes, user experience with instrumentation, availability of reprints and other publications and so forth, should be sought directly from the project director *(not the NSF)*, using the address or telephone number provided in the listing. One of the primary functions of this book is to encourage and facilitate such informal exchanges between readers and project directors.

Inclusion of a project director's telephone number in the PROJECT ROSTER indicates that inquiries about the project have explicitly been invited. Although the PROJECT ROSTER does include all ISEP, LOCI and RULE projects funded during the period covered by the Guide, the SUBJECT INDEX includes only those whose directors have indicated their willingness to provide information to users of this book.

In a few instances, project directors are no longer at the institution to which their award was made. In such cases, the institution listed is the original one, but we have made an effort to furnish the *current* telephone number of the project director.

Abbreviations in Access Numbers

State Abbreviations

AL—Alabama
AK—Alaska
AZ—Arizona
AR—Arkansas
CA—California
CO—Colorado
CT—Connecticut
DE—Delaware
DC—Dist. of Col.
FL—Florida
GA—Georgia
HI—Hawaii
ID—Idaho
IL—Illinois
IN—Indiana
IA—Iowa
KS—Kansas
KY—Kentucky
LA—Louisiana
ME—Maine
MD—Maryland
MA—Massachusetts
MI—Michigan
MN—Minnesota
MS—Mississippi
MO—Missouri
MT—Montana
NE—Nebraska
NV—Nevada
NH—New Hampshire
NJ—New Jersey
NM—New Mexico
NY—New York
NC—North Carolina
ND—North Dakota
OH—Ohio
OK—Oklahoma
OR—Oregon
PA—Pennsylvania
PR—Puerto Rico
RI—Rhode Island
SC—South Carolina
SD—South Dakota
TN—Tennessee
TX—Texas
UT—Utah
VT—Vermont
VA—Virginia
WA—Washington
WV—West Virginia
WI—Wisconsin
WY—Wyoming

Discipline Abbreviations

BZ—Biology/Life Sciences
CH—Chemistry (other than Chemical Engineering)
CS—Computer Science
EN—Engineering Sciences
EZ—Earth Sciences
IN—Interdisciplinary/Multidisciplinary projects
MA—Mathematics
PS—Psychology
PY—Physics and Astronomy
SZ—Social Sciences and Philosophy of Science
ZZ—Other Sciences

Note: Numerical Keywords such as "3M Company" are indexed at the end of the alphabetical SUBJECT INDEX.

SUBJECT INDEX

SUBJECT INDEX

A chemistry computer program library NJ/CH 533
A computer controlled experimental psychology laboratory for undergraduates MS/PS 469
Absorbance detector uv Waters PA/CH 758
Absorber set Nucleus Inc. NY/PH 599
Absorption atomic analytical organic chemistry NY/CH 630
Abstract algebra computer approach MN/MA 457
Abstract thought: Laboratory remedial chemistry using structured open ended inquiry formats CO/CH 109
Abstraction aids: Desk top kits for introductory chemistry: a Piagetian approach FL/CH 173
Accelerometers Consolidated Electrodynamics Corp. MI/PH 429
Accelerometers Endevco NM/EN 541
Acceptance sampling: Computer simulated sampling game for study of quality control OK/EN 715
Acculab Beckman infrared spectrophotometer TX/CH 840
Acculab infrared spectrophotometer Beckmen Instruments TN/EN 825
Accumat pH meter Fisher AZ/BZ 21
Ace Glass Inc. inert gas glassware system MN/CH 441
Acoustic coupler Anderson Jacobson MA/CH 389
Acoustic coupler Datec VA/CS 912
Acoustic coupler MI² NJ/IN 534
Acoustic coupler modems Comdata TN/SZ 828
Acoustic coupler Omnitec MA/EN 392
Acoustic couplers Digicom CA/IN 42
Acoustical modeling: Undergraduate communication, electroacoustic, and environmental noise control laboratory ME/EN 351
Acoustics electronics laboratory equipment WI/PH 944
Acoustics measurements applied laboratory minicomputer IL/PH 219
Acoustics noise control NY/EN 625
Acoustics speech teaching real time spectrum analyzers AR/PH 40
Acoustics: Computer graphics for instructional use MN/EN 454
Acoustics: Engineering physics equipment and interfacing with microcomputers OH/PH 678
Acoustics: Physics laboratory for architects AR/IN 37
Acoustics: Scientific equipment for speech and hearing science undergraduate instruction AZ/ZZ 23
Acoustics: Underwater side scan sonar system FL/EN 160
Acoustics, transport phenomena GA/PH 181
Acousto-optic modulator Datalight Corp. RI/EN 791
Acquisition and manipulation of digital data in physical chemistry NV/CH 506
Acquisition of computer terminals to support undergraduate instruction NJ/IN 525
Acquisition of liquid scintillation counter and allied equipment IA/BZ 276
Acrylamine electrophoresic system Bio Rad NY/IN 580
Action potentials: Animal physiology for sophomore biology students MO/BZ 472
Activated sludge plant Biospherics PA/EN 776
Activated sludge training program Kirkwood's IA/ZZ 283
Activation analysis: Gamma spectrometry and time analysis for nuclear detection laboratory GA/EN 179
Activity based format for anatomy and physiology laboratory LA/BZ 331
Activity patterns of marine animals: Undergraduate research program in marine biology CA/BZ 82
Acumet pH meter Fisher NY/BZ 570 TX/IN 848
ADAM circuit design test system E and L LA/CH 335
Adaptation: Modern measurement techniques for undergraduate sensory psychology laboratory MA/PS 383
Adaptive evaluation structure for computer based instruction IA/SZ 292
Adaptor ac Panasonic video camera OH/BZ 700
Adaptor FM recording Vetter Co. ND/BZ 652
Addition of mass spectrometry to a spectrometric analysis course OR/CH 741
Addressable computer terminal DIGILOG WA/MA 916
Adiabatic bomb calorimeter Parr IL/CH 202
Adsorption: Food engineering technology laboratory for four year program KS/EN 300
Advanced computer assisted information processing laboratory for psychology majors PA/PS 765
Advanced digital design laboratory for computer engineering students WI/EN 937
Advanced Instrument osmometer N6007 MN/BZ 446
Advanced instrumental analysis CO/CH 116
Advanced Instruments VWR Scientific, osmometer IA/BZ 277
Advanced Metals Research model 1200 scanning electron microscope MI/BZ 404
Advanced physics and nuclear medicine technology laboratory improvement project NY/PH 592
Advanced projects: Laboratory revision with industrial emphasis MI/CH 422
Advanced spectroscopy experiments for senior chemistry labs GA/CH 182
Advanced techniques in genetics laboratory for biology majors MI/BZ 419
Advanced technology: Applications of small computers in experiment control MD/CH 364
Advent Video-Beam projector 1000A MI/CH 430
Advent 1000A color videobeam CT/MA 145
Advent 1000A television projection system MI/MA 418
Advertising: Perceptual laboratory for technical students NY/PS 588
Aerial photo interpretation laboratory environment IL/SZ 237
Aerial photos stereo interpretation Bausch Lomb IL/SZ 237
Aerodynamics: Mechanical engineering undergraduate laboratory NM/EN 541
Aerodynamics: Programmable data acquisition system for undergraduate aerospace engineering laboratories TX/EN 873
Aerolab educational wind tunnel IA/EN 280
Aerolab Supply Co. windtunnel, IL/EN 203
Aeromatic Inc. fluid bed spray granulator dryer STREA-1 DE/IN 146
Aerospace engineering laboratories programmable data acquisition TX/EN 873
Aerovane wind station Bendix WA/ZZ 921
Affinity chromatography microcomputer applications WI/IN 946
AFM Microflex camera Nikon ND/EZ 659
Agricultural engineering: Introductory fluid mechanics for engineers IA/EN 280
Agriculture environmental plant growth control MN/BZ 459
Agronomy: Environmental plant growth control for students of technical agriculture MN/BZ 459
Agronomy: Resource center and laboratory experience program development IN/ZZ 251
Ailtech spectrum analyzer model 72712 CA/EN 78
Ainsworth electronic balance gamma N-IV SC/BZ 800
Air bearing turntable Fisher Stansi SD/PH 819
Air blower Roots Peeco, Inc. RI/BZ 794
Air conditioner York NY/BZ 571
Air distribution system Scott Armfield IA/EN 280
Air gyrascope student Ealing TX/PH 846
Air hydraulics diaphragm pump NM/BZ 540
Air photos: Optical equipment for transfer of map data MA/EZ 367
Air pollutants environmental sampling monitoring IN/EN 267
Air pollution pump LaMotte Chemical Co. NC/ZZ 651
Air table Ealing WY/EN 953
Air table student Ealing TX/PH 846
Air track linear Ealing SD/PH 819
Air transducer current Foxboro Co. MO/EN 488
Air velocity meter Thermo Systems MO/ZZ 482
Airtable demonstration Ealing SD/PH 819
Akai tape recorder MA/PS 383
Alan Gordon Enterprises mirror stereoscope F71 OK/EZ 724
Algae audio-tutorial teaching module ND/BZ 660
Algal ecology: Equipment for laboratories in aquatic ecology NY/BZ 607
Algebra business students computer assisted MA/MA 369
Algebra business students operations research MS/MA 463
Algebra calculus computer modules SC/MA 799
Algebra computer approach abstract MN/MA 457
Algebra computer assisted instruction TN/MA 829
Algebra trigonometry college NE/MA 503
Algebra trigonometry college minicourses IN/MA 249
Algebra weak mathematical backgrounds MI/MA 433
Algology: Experimental approach to study of botanical microorganisms UT/BZ 882
Allied equipment liquid scintillation counter IA/BZ 276
Allied health: Human body physics laboratory for health sciences students IL/PH 201
Allied Systems Corp. plugboard system TX/PS 879
Alpha beta gamma laboratory system Electronic Designs CO/CH 119
Alpha Microsystems microcomputer AM-100 UT/PH 883
Alpha rhythm: Biofeedback laboratory for undergraduate independent research OH/PS 670
Alphanumeric terminals Fox FL/PS 165
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American Optical microscopes 150 SC/BZ 796
American Optical microscopes 161 SC/BZ 796
American Optical microstar series 20 microscope OH/BZ 690
American Optical model 2400 electrocardiogram apparatus MI/PH 416

American Optical phase contrast microscope H20 TU-PP4 MI/PH 416
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American Optical sliding microtome A0860 DC/PS 147
American Optical stereoscope microscopes series forty TX/BZ 837
American Optical teaching binocular microscope DXL10BUQW, M2200-1 FL/BZ 151
American Optical twin view stereomicroscope CT/BZ 140
American Optical water shaker bath NY/BZ 570
American used computer BAR-11EC expander box with power supply MO/EN 488
Ames Co. gamma counter Gammacord 5230 NC/ZZ 643
Amicon DC-30 ultrafiltration cell KS/EN 300
Aminco Bowman fluorocolorimeter J4-7439 CA/BZ 89
Aminco Bowman spectrophotofluorometer J4-8202H PA/CH 758
Aminco chemiluminescence photometer and recorder model Chem-Glow AL/IN 16
Amplifier channel Narco MN/IN 434
Amplifier Grass CT/BZ 140
Amplifier high gain Harvard NJ/BZ 530
Amplifier lock in Princeton Applied Physics GA/PH 181
Amplifier lock-in Keithley NJ/PH 518
Amplifier lock-in Princeton applied research CA/PH 55
Amplifier main ORTEC MN/PH 436
Amplifier power B and K OH/EN 703
Amplifier power Hewlett Packard TX/EN 852
Amplifier power Pasco TX/PH 849
Amplifier speaker Lafeyette Co. NY/PS 588
Amplifier spectroscopy ORTEC NY/PH 599
Amplifier spectroscopy Ortec Inc. VT/PH 887
Amplifier voltage follower W. P. Instruments MD/BZ 365
Amplifiers balanced dc Teca MA/ZZ 370
Amplifiers channel couplers Narco MO/BZ 472
Amplifiers differential Tektronix MI/PH 429
Amplifiers EMG Teca MA/ZZ 370
Amplifiers operational Pasco PA/PH 785 TX/PH 849
Amplival phase contrast microscope MO/ZZ 482
Ampsco electrocardiograph CA/BZ 75
An audiovisual improvement in chemical laboratory instruction NJ/CH 516
An intensive tutorial in mathematics for freshman and sophomores MN/MA 448
Anaerobic microbiology: Specialized microbiology subcourse for undergraduates MA/BZ 379
Analog computer EAI SD/EN 816
Analog computer OLIS Inc. NE/CH 501
Analog computers: Process dynamics and control experiment development OH/EN 708
Analog data acquisition package real time DEC MA/CS 393
Analog digital converter Digital Equipment NY/PH 595
Analog digital designer ADD-8000 IA/PH 293
Analog digital designer E and L Instruments GA/PH 175
Analog digital input output devices Interdata GA/EN 180
Analog electronics: Elementary chemical instrumentation for computer-interfaced data acquisition and processing CT/CH 141
Analog fluid circuit Technovate VA/EN 902
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Analog I/O interface real time MA/PS 383
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Analog signal recorder Heathkit IR18M MA/PS 383
Analog to digital conversion of evoked potentials and EEG: Real-time computing in cognitive and physiological psychology laboratories CT/PS 134
Analogy hybrid computer Electronic Associates Inc. AZ/EN 25
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Analysis accessories spillway OR/EN 733
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Analysis data collection physiology laboratory TX/BZ 855
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Analysis equilibrium new experiments MN/CH 437
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Analysis: High performance liquid chromatography in undergraduate courses and research MI/CH 412
Analysis: High pressure liquid chromatography NY/CH 556
Analysis: Improvement of analytical instrumentation and reactor equipment ID/EN 196
Analysis: Instrumentation for upper division chemistry laboratories CA/CH 50
Analysis: Mass spectroscopy for undergraduate science majors VA/CH 893
Analysis: Mass spectroscopy in undergraduate chemistry CA/CH 45
Analysis: Modernization of organic chemistry laboratory experiments OH/CH 702
Analysis: NMR and mass spectroscopy in organic undergraduate laboratory VT/CH 889
Analysis: Organic chemistry course improvement by NMR acquisitio. WA/CH 924
Analysis: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
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Analytical balance Sartorius IA/BZ 276
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Analytical chemistry atomic absorption spectrometry OR/CH 745
Analytical chemistry atomic absorption spectrophotometer IN/CH 240
Analytical chemistry students atomic absorption spectroscopy TX/CH 838
Analytical chemistry techniques: Atomic absorption spectroscopy for analytical chemistry students TX/CH 838
Analytical chemistry: Equipment for upper division undergraduate applied chemical laboratory work OR/CH 744
Analytical chemistry: Gas chromatograph mass spectrometer system for undergraduate chemistry laboratories CA/CH 62
Analytical chemistry: Instrumental analysis incorporating mass spectroscopy and modular electronic instrumentation PA/CH 749
Analytical chemistry: Laboratory equipment for physical chemistry labs IL/CH 202
Analytical chemistry: Nuclear magnetic resonance instruction for organic-analytical chemistry laboratories LA/CH 334
Analytical chemistry: Proton magnetic resonance experiments in undergraduate chemistry curriculum SC/CH 801
Analytical chemistry: Uv-vis. spectrophotometer and photofluorometer in undergraduate chemistry VT/CH 886
Analytical chemistry, laboratory biochemistry, PA/CH 758
Analytical equipment for undergraduate chemical engineering laboratory TN/EN 825
Analytical field surveys: Lab curricula in estuarine ecology, limnology and comparative physiology NY/BZ 563
Analytical instrumentation electronic McKee Pedersen PA/CH 749
Analytical instrumentation reactor equipment ID/EN 196
Analytical instrumentation: NMR spectrometer for organic chemistry NC/CH 635
Analytical methods: Teaching fluorescence assay in a biochemistry laboratory course CA/BZ 89
Analytical models: Interactive computer graphics for simulating construction field operations CA/EN 84
Analytical Physical Chemistry Laboratory PA/CH 782
Analytical techniques: Equipment enhancement of general and organic chemistry courses AL/CH 8
Analytical techniques: Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Analytical, physical inorganic chemistry laboratories NY/CH 574
Analytical, physical, and inorganic chemistry: Laboratory equipment for integrated junior and senior chemistry laboratory MN/CH 441
Analyzer drug Toxichron IN/ZZ 255
Analyzer Dynatrac Ithaco IN/IN 259
Analyzer image Interpretations Systems Inc. IL/EZ 220 IL/EZ 221
Analyzer laser spectrum Spectra Physics WI/PH 931
Analyzer logic formatter Tektronix KY/EN 327 MO/EN 486
Analyzer logic Hewlett Packard KY/EN 327
Analyzer logic state CO/EN 111
Analyzer logic Tektronix MO/EN 483 OR/EN 740
Analyzer microprocessor Systron Bonner NH/CS 514
Analyzer motion B and K OH/EN 703
Analyzer multichannel Canberra GA/EN 179
Analyzer multichannel Northern Scientific Co. VT/PH 887
Analyzer multichannel Tracor Northern MI/PH 416
Analyzer organic carbon Beckman PA/EN 776
Analyzer oscillator General Radio GA/PH 181
Analyzer oxygen Applied Electrochemistry Inc. IA/BZ 277
Analyzer oxygen Beckman NY/BZ 566
Analyzer oxygen Servomex PA/BZ 788
Analyzer projector stop action Lafayette Instrument Co. AZ/BZ 32
Analyzer puls height Tracor Northern KS/PH 298
Analyzer pulse height Tracor Northern MN/PH 436
Analyzer sound vibration Metirx NM/EN 541
Analyzer spectrum Hewlett Packard IL/PH 219

Analyzer spectrum real time Rockland AR/PH 40
Analyzer spectrum Tektronic GA/PH 183
Analyzer spectrum Tektronix NC/PS 636 OR/EN 740
Analyzer stress optical Ealing UT/PH 881
Analyzer timing ORTEC MN/PH 436
Analyzer water Martek SC/IN 808
Analyzers system Prolog Corp. OR/EN 732
Anatomical charts human Frohse NY/BZ 571
Anatomical model with removable plastic organs AK/BZ 20
Anatomical models Carolina Biological TX/BZ 837
Anatomical models, Carolina Biological AZ/BZ 30
Anatomical models, Wards Science Teaching Aids AZ/BZ 30
Anatomical model, Nystrom life size AL/BZ 11
Anatomy and physiology laboratories physiograph procurement CO/BZ 107
Anatomy human biology health LA/BZ 333
Anatomy human physiology instructional equipment AL/BZ 11
Anatomy physiology animal mastery learning students AZ/BZ 30
Anatomy physiology Brady cassette sound/color filmstrips AP-15 AL/BZ 11
Anatomy physiology courses modules IN/BZ 247
Anatomy physiology laboratory format LA/BZ 331
Anatomy physiology laboratory health sciences TX/BZ 837
Anatomy physiology laboratory human nursing students MS/BZ 471
Anatomy wood video microscope MA/ZZ 391
Anatomy: Data collection and analysis in the physiology laboratory TX/BZ 855
Anatomy: Laboratory assistance videotapes for life science CA/BZ 73
Ancient science: Teaching philosophy of science with a laboratory IL/ZZ 206
Anderson Jacobson A-242 acoustic coupler MA/CH 389
Anderson Jacobson graphics terminal AJ 860 MI/MA 433
Anechoic chamber: Senior laboratory in applied acoustics measurements with minicomputer assistance IL/PH 219
Anemometer Disa NY/EN 603
Animal anatomy physiology students mastery learning AZ/BZ 30
Animal and plant physiology laboratories for undergraduate biology majors NM/BZ 540
Animal and plant specimens CO/BZ 114
Animal balance Fisher SD/BZ 818
Animal behavior research student guide PA/IN 753
Animal behavior solid state laboratory PA/PS 760
Animal behavior: Experimental psychology laboratory for undergraduate instruction NC/PS 640
Animal behavior: Undergraduate psychology laboratory for experiments with human subjects TN/PS 834
Animal biology students OK/BZ 719
Animal cages Lafayette NC/PS 640
Animal cages with stand, Carolina Biological Supply Jewel 330 MS/IN 461
Animal developmental biology laboratory CO/BZ 114
Animal dissection: Optional activities for undergraduate animal biology students OK/BZ 719
Animal learning: Laboratory equipment teaching perception, operant conditioning, psychobiology, and statistics KY/PS 321
Animal operant test environment Coulbourn TX/PS 879
Animal physiology for sophomore biology students MO/BZ 472
Animal physiology laboratory comparative OH/BZ 696
Animal research: Bioethics course for undergraduate non-science majors and the public WI/IN 950
Animal sciences physiology laboratory WA/BZ 922
Animal studies: Interactive study group instructional strategy for nutritional science TX/BZ 857
Animal surgery: Laboratory equipment teaching perception, operant conditioning, psychobiology, and statistics KY/PS 321
Animal test chamber Coulbourn Instruments TN/PS 834
Animal toxins: Improvement in public understanding of chemicals in food NY/CH 559
Animal, plant, microbial physiology SD/BZ 813
Ann Arbor CRT terminal WA/SZ 923
Ann Arbor terminals 1632 KSR terminal with external sync AL/PS 17
Anodic stripping analysis: Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
Anthropology course improvement PA/SZ 774
Anthropology data analysis exercises MN/SZ 447
Anthropology physical human skeletons hominid fiberglass casts TX/SZ 850
Anthropology video tape course OH/SZ 675
Anthropology: Economic history from periods of structural economic change VA/SZ 892
Anthropology: Instructional ethnographic laboratory CA/SZ 92
Anthropology: Interactive computer mapping of cultures OR/SZ 737
Anthropology: Self paced video and computer assisted instruction in ethnography CA/SZ 93
Anthropology: Thematic approach to undergraduate social science curriculum VA/SZ 906
Anthropology: Undergraduate archeology laboratory program CA/SZ 104
Anticipation timer Bassin Lafayette Instrument Co. AZ/BZ 32
Antour consolidation apparatus model A CO/EN 126
APL character set Teleray terminals MD/MA 357
APL DECWriter computer terminals IL/IN 213 NJ/IN 525
APL Execuport portable computer terminal IA/MA 274
APL Teleray CRT computer terminals IL/IN 213
APL/ASCII computer terminal LA36 Digital Equipment AL/MA 6
APL/ASCII portable computer terminal NCR 265 AL/MA 6
Apollo planetarium instrument Viewlex Inc. AR/ZZ 41
Apollo planetarium projector dome Viewlex IA/ZZ 281
Apparatus perception laboratory psychology teaching IL/PS 223
Application of computer graphics to structural dynamics instruction NY/EN 586
Application of modern quantitative techniques to biological problems NY/BZ 632
Application of quantitative notions to undergraduate instruction in biology OH/BZ 666
Application of social psychology to behavior and belief MI/PS 410
Application of television in introductory college microbiology OH/BZ 700
Applications of physics: Physics demonstrations for life science students MI/PH 416
Applications of small computers in experiment control MD/CH 364
Applicator sample Gelman VA/CH 898
Applied acoustics measurements laboratory minicomputer IL/PH 219
Applied Digital Data Systems CRT terminals consul 520 CA/IN 42
Applied Digital Data Systems CRT terminals Regent 200 NY/MA 622
Applied Electrochemistry Inc. oxygen analyzer S-3A IA/BZ 277
Applied optics for liberal arts students ID/PH 193
Applied Physics Princeton lock in amplifier GA/PH 181
Applied physics: Courseware for microprocessor and microcomputer instruction IN/ZZ 239
Applied Science Lab. eye movement monitor Eye Trac 200-2 PA/PS 765
Aquarium maintenance: Independent field marine laboratory for two-year college students FL/BZ 158
Aquatic collecting nets Ward's Natural Science VA/IN 901
Aquatic ecology for liberal arts undergraduate women VA/IN 901
Aquatic ecology laboratories NY/BZ 607
Aquatic ecology: Techniques for studying the Lake Michigan biota and environment IL/BZ 209
Aquatic microbiology modules NY/BZ 619
Aquatic safety: Independent field marine laboratory for two-year college students FL/BZ 158
Aquisition of equipment for a course in immunology NJ/BZ 522
Archeology field studies: Undergraduate archeology laboratory program CA/SZ 104
Archeology laboratory program undergraduate CA/SZ 104
Archeology methods: Undergraduate archeology laboratory program CA/SZ 104
Archeology: Field vehicle for field sciences ID/IN 190
Architects physics laboratory AR/IN 37
Architectural acoustics: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Architectural structures model testing studio PA/EN 775
Architectural technicians computer graphics WI/ZZ 938
Architecture students computer aided lessons graphic communications AZ/IN 28
Architecture: Computer graphics for architectural technicians WI/ZZ 938
Architecture: Model testing studio for architectural structures PA/EN 775
Aremco 3100 screen printer PA/EN 761
Armfield Scott open channel flume S4-10/6M OR/EN 733
ARP synthesizer AXXE MA/IN 397
Art human communication sensory basis FL/IN 172
Artex sonic dismembrator 300 NC/BZ 639
Arthur Thomas Co. multiple stirring apparatus 8597-M10 NY/EN 623
Articulated skeleton Medical Plastics AL/BZ 11
Artificial intelligence: Computer graphics and spectrum analyzer for four year college CA/ZZ 64
Artificial kidney: Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
Artificial voice Bruel and Kjaer ME/EN 351
Arts majors: New Optics Laboratory Course for Non-Physicists MA/PH 374
Arts science liberal curriculum microcomputers SD/PH 812
Arts: Perceptual laboratory for technical students NY/PS 588
Ascent of man for honors students in non-science majors OH/IN 704
ASCII compatible communications with buffered input for Intercolor terminals TX/PS 860
ASCII keyboard KB-7 for Texas Instruments Silent 700 terminal TX/IN 862
ASR 33 teletype, Data General FL/MA 171
ASR 43 TTY CO/EN 111
ASR-33 teletype NJ/IN 534
ASR-33 teletype terminal MA/EN 392
Assay: Modern instrumentation for laboratory exercises in biochemistry MN/CH 456
Assembler language: Sophomore laboratory on programmed logic AZ/EN 31

Assembler relocatable macro Motorola Semiconductor Products MN/CS 451
Assembly design: Microprocessor based interdisciplinary laboratory CO/EN 111
Assembly language programming: Minicomputer and microcomputer laboratory for hardware and software instruction MA/CS 393
Assembly language: Improvement of undergraduate course in computer and operating systems NJ/CS 532
Assembly programming: Individual hands-on computer experience for core computer science CO/CS 112
Assist-V: Environment simulator for systems software development TN/CS 831
ASTM E155 and E390 radiograph standards IN/EN 268
Astrogeophysics: Energy and sun and synthesis of astronomy and technology CO/PH 122
Astrola telescope Cave Optical SD/PH 811
Astronomy course planetarium laboratory IA/ZZ 281
Astronomy geneal observatory GA/PH 186
Astronomy introductory telescope laboratory GA/PH 177
Astronomy teaching aids laboratory SD/PH 811
Astronomy technology energy sun CO/PH 122
Astronomy Video Tapes Laboratories SC/PH 798
Astronomy: Equip and assemble a solar laboratory CO/ZZ 120
Astronomy: Instructional solar laboratory MA/ZZ 371
Astronomy: Junior and senior personalized system of astrophysics instruction NM/ZZ 545
Astronomy: Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Astronomy: Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
Astrophysics instruction NM/ZZ 545
Atkins 3 probe portable electronic thermometer F03-F-10 AZ/EZ 27
Atomic absorption and mass spectrometry in analytical organic chemistry NY/CH 630
Atomic absorption spectrometer Varian OR/CH 744
Atomic absorption spectrometry analytical chemistry OR/CH 745
Atomic absorption spectrophotometer for analytical chemistry and advanced projects IN/CH 240
Atomic absorption spectrophotometer Instrumentation Laboratory IN/CH 240
Atomic absorption spectrophotometer Instrumentation Labs OR/CH 745
Atomic absorption spectrophotometer Jarrell Ash NY/CH 630
Atomic absorption spectrophotometer Perkin Elmer CT/CH 132 IN/ZZ 251 PA/EN 776 TX/CH 838
Atomic absorption spectrophotometer Varian CO/EN 118 IL/EN 226 PA/CH 786
Atomic Absorption Spectrophotometry and Polarography in integrated chemistry laboratories PA/CH 786
Atomic absorption spectrophotometry in undergraduate quantitative analysis NY/CH 568
Atomic absorption spectrophotometry: Basic chemical instrumentation with media assistance NY/CH 617
Atomic absorption spectroscopy for analytical chemistry students TX/CH 838
Atomic absorption, instrumental analysis, CT/CH 132
Atomic model theory (subatomics): Equipment enhancement of general and organic chemistry courses AL/CH 8
Atomic physics: Modern physics experiments for undergraduate physics majors IL/PH 207
Atomic survey meter Baird IN/PH 241
Atomizer flameless Instrumentation Laboratory IN/CH 240
Atomospheric vortex: Tornado flow theory IA/IN 278
ATP photometer S/I Technology Co. DE/IN 146
ATS creep frame direct load tester 2130 CA/EN 53
Audio cassette recorder Superscope VT/EN 891
Audio monitor Grass Instruments OH/PS 688
Audio monitors Panasonic MA/PS 388
Audio osciliator Hewlett Packard NC/PS 636
Audio printer 3M Sound Pages master recorder NE/MA 503
Audio signal generator, Lafeyette Co. NY/PS 588
Audio tutorial anatomy and physiology laboratory for health sciences TX/BZ 837
Audio tutorial self paced experiments open channel flow OR/EN 734
Audio tutorial, self instructional systems soil plant science teaching AL/EZ 1
Audio visual assisted instruction chemical instrumentation CA/CH 58
Audio visual color television programs in optical mineralogy NY/EZ 551
Audio Visual Medical Marketing Inc. autotutorial units, AZ/BZ 30
Audiology: Scientific equipment for speech and hearing science undergraduate instruction AZ/ZZ 23
Audiometer Grason Stadler AZ/ZZ 23
Audiometers Beltone IL/PH 201
Audiometric logic modules Coulbourn Instruments AR/PS 38
Audiomonitor Grass Instrument Co. OK/PS 728
Audiotronics Corp. cassette player 146 SC/BZ 809
Audiotutorial introductory chemistry for non-science majors CA/CH 70
Audiotutorial: Surrogate field experience for geography students CA/SZ 54
Audioviewer Ektagraphic Kodak NJ/CH 516 OH/CH 661
Audioviewer Kodak Ektagraphic AZ/BZ 30
Audiovisual aids microbiology biochemistry MI/BZ 424
Audiovisual aids vertebrate physiology NY/BZ 593
Audiovisual auto-tutorial modules complex instrument operation MA/CH 384
Audiovisual demonstrations physiology laboratories pre-health professions NE/BZ 495
Audiovisual equipment computer teaching mathematics AL/MA 6
Audiovisual improvement chemical laboratory instruction NJ/CH 516
Audiovisual instruction mathematics remedial, tutorial, augmented self paced AL/MA 9
Audiovisual materials and data assessment for college chemistry laboratory MN/CH 442
Audiovisual modules independent study chemistry OH/CH 661
Audiovisual prelab demonstrations for organic chemistry TN/CH 833
Audiovisual: Application of quantitative notions to undergraduate instruction in biology OH/BZ 666
Audiovisual: Application of social psychology to behavior and belief MI/PS 410
Audiovisual: Application of television in introductory college microbiology OH/BZ 700
Audiovisual: Ascent of man for honors students in non-science majors OH/IN 704
Audiovisual: Audio tutorial anatomy and physiology laboratory for health sciences TX/BZ 837
Audiovisual: Audio tutorial, self instructional systems soil plant science teaching AL/EZ 1
Audiovisual: Audiovisual prelab demonstrations for organic chemistry TN/CH 833
Audiovisual: Audio-tutorial approach in microbiology to encourage student self-direction MI/BZ 420
Audiovisual: Basic chemical instrumentation with media assistance NY/CH 617
Audiovisual: Bioethics course for undergraduate non-science majors and the public WI/IN 950
Audiovisual: Biology learning center primarily for nonscience majors SC/BZ 809
Audiovisual: Color video tapes made for engineering courses OK/EN 714
Audiovisual: Computer assisted course in biomathematics MI/MA 418
Audiovisual: Computer generated dynamic graphic modules for undergraduate mathematics instruction FL/MA 162
Audiovisual: Computer generated phase diagrams in thermodynamics education IA/EN 279
Audiovisual: Computer generated TV displays for low resolution class-room instruction WA/MA 916
Audiovisual: Computer graphics in physical science classes KS/CH 294
Audiovisual: Computerized data acquisition for mechanical engineering undergraduates NY/EN 557
Audiovisual: Computerized data analysis for taxonomy, plant identification and systematics WA/BZ 920
Audiovisual: Computer-generated audio-visual aids to presenting mathematical derivations in chemistry NJ/CH 520
Audiovisual: Construction of inexpensive environmental chamber NY/BZ 571
Audiovisual: Consultant prepared data-based reading assignments for political science mini-courses OH/SZ 676
Audiovisual: Curriculum development in plant, animal, and microbial physiology SD/BZ 813
Audiovisual: Development of a course on recycling of materials OH/EN 668
Audiovisual: Development of laboratory alternatives in introductory biology GA/BZ 184
Audiovisual: Dynamic LAP dissolved models for organic chemistry GA/CH 185
Audiovisual: Economics lessons programmed on the CDC PLATO computer MN/SZ 443
Audiovisual: Educational system utilizing water management modules NY/EN 623
Audiovisual: Educational uses of computer graphics CA/CS 102
Audiovisual: Electrophysiological Experiments for Science Majors and Medical Paraprofessionals MA/BZ 368
Audiovisual: Embryology and histology for premedical and predental students LA/BZ 341
Audiovisual: Entry self-study modules for undergraduate chemistry students OK/CH 725
Audiovisual: Equipment enhancement of general and organic chemistry courses AL/CH 8
Audiovisual: Expansion of advanced biology laboratory experiences PA/BZ 788
Audiovisual: Experimental and seminar approaches in introductory sociology TX/SZ 836
Audiovisual: Experimental approach to study of botanical microorganisms UT/BZ 882
Audiovisual: Field experience in botany, geology, oceanography, and interdisciplinary science FL/IN 159
Audiovisual: Final phase of anthropology 1 course improvement PA/SZ 774
Audiovisual: First year calculus with computer CT/MA 145

Audiovisual: General biology and independent studies MI/BZ 415
Audiovisual: Guided design projects for physical science course WV/IN 927
Audiovisual: Implementation of interactive computer graphics in undergraduate engineering education WI/EN 947
Audiovisual: Improved use of kodachromes and microscope slides in teaching OH/BZ 690
Audiovisual: Improvement in public understanding of chemicals in food NY/CH 559
Audiovisual: Improvement of undergraduate plant physiology laboratory course CT/BZ 138
Audiovisual: Independent field marine laboratory for two-year college students FL/BZ 158
Audiovisual: Individualized mathematics and science instruction TX/IN 841
Audiovisual: Initiation of a review and remedial math clinic IA/MA 271
Audiovisual: Instructional equipment for human anatomy and physiology AL/BZ 11
Audiovisual: Instructional ethnographic laboratory CA/SZ 92
Audiovisual: Instructional scientific equipment for transportation engineering materials laboratory TN/EN 826
Audiovisual: Instructional videocassettes on energy topics MS/PH 467
Audiovisual: Instrumental and computational methods in biology WY/BZ 954
Audiovisual: Integrated science laboratory module improvement TX/IN 839
Audiovisual: Integrated two-course sequence in genetics LA/BZ 337
Audiovisual: Interactive computer graphics for simulating construction field operations CA/EN 84
Audiovisual: Interactive computer mapping of cultures OR/SZ 737
Audiovisual: Interdisciplinary introductory video tape course in sociology and anthropology OH/SZ 675
Audiovisual: Introductory physics with an engineering ambience for non-science majors NY/PH 560
Audiovisual: Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Audiovisual: Laboratory assistance videotapes for life science CA/BZ 73
Audiovisual: Laboratory equipment for comparative physiology and neurophysiology CT/BZ 140
Audiovisual: Laboratory experiences in the exercise sciences AZ/BZ 32
Audiovisual: Laboratory methods and instruments for introductory biology students NY/BZ 570
Audiovisual: LAP dissolve slide presentations for organic chemistry laboratory NE/CH 497
Audiovisual: Lap-dissolve for use in teaching in the biological sciences ND/BZ 658
Audiovisual: Large screen interactive displays in teaching computer languages IN/CS 245
Audiovisual: Lecture vitalization using LAP-dissolve projection NY/CH 590
Audiovisual: Mastery learning for students in animal anatomy and physiology AZ/BZ 30
Audiovisual: Mathematics for students in the allied health technologies VA/MA 910
Audiovisual: Medical electronic instrumentation for pre-medical students TN/PH 820
Audiovisual: Modular and multimedia approach to introductory statistics OH/MA 694
Audiovisual: Modular instruction in chemistry for underprepared learners IL/CH 227
Audiovisual: Modules in aquatic microbiology for microbiology, non-microbiology courses NY/BZ 619
Audiovisual: Modulized course in principles of entomology FL/BZ 166
Audiovisual: Nikon Micropan zoom microprojector for microscopically oriented courses MO/BZ 481
Audiovisual: Optics for pre-college science teachers and scientists NY/EN 627
Audiovisual: Optional activities for undergraduate animal biology students OK/BZ 719
Audiovisual: Perceptual laboratory for technical students NY/PS 588
Audiovisual: Physical chemistry for life sciences AR/CH 39
Audiovisual: Physical methods chemistry laboratory with improved data handling techniques VA/CH 908
Audiovisual: Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Audiovisual: Plant and animal developmental biology laboratory for biology majors CO/BZ 114
Audiovisual: Polaroid interactive lecture system for use in demonstrations center PA/PH 767
Audiovisual: Portable minicomputer KS/MA 296
Audiovisual: Process approach to understanding human perceptual and motor behavior IA/PS 289
Audiovisual: Procurement of physiograph for human anatomy and physiology laboratories CO/BZ 107
Audiovisual: Real-time computing in cognitive and physiological psychology laboratories CT/PS 134
Audiovisual: Remedial, tutorial, augmented self paced audiovisual instruction in mathematics AL/MA 9
Audiovisual: Research equipment in autotutorial science teaching in undergraduate physiology IL/BZ 215
Audiovisual: Resource center and laboratory experience program development IN/ZZ 251
Audiovisual: Restructuring undergraduate laboratory teaching in biology SC/BZ 802
Audiovisual: Scanning electron microscopy for undergraduate plant morphology instruction CA/BZ 60
Audiovisual: Science fiction films PA/PH 781
Audiovisual: Self paced minicourses in biology for the general student VA/BZ 896
Audiovisual: Self paced video and computer assisted instruction in ethnography CA/SZ 93
Audiovisual: Self-paced genetics, ecology, and systematics modules for general zoology IL/BZ 222
Audiovisual: Self-paced materials for a competency-based fundamental science curriculum MI/IN 405
Audiovisual: Self-paced modules for anatomy and physiology courses IN/BZ 247
Audiovisual: Self-paced proficiency modules for teaching statics and dynamics labs IL/EN 228
Audiovisual: Sensory basis of art and human communication FL/IN 172
Audiovisual: Single Concept Video Tapes and Observational Laboratories for Astronomy SC/PH 798
Audiovisual: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Audiovisual: Slide and tape programs for medical instrumentation WI/EN 942
Audiovisual: Slide-tape assisted self-paced biochemistry laboratory for undergraduate women MA/BZ 381
Audiovisual: Spectrophotometers for introductory organic chemistry laboratory WA/CH 919
Audiovisual: Structure determination using spectra and on-line bibliographic retrieval systems IL/IN 204
Audiovisual: Studies on radiation, projection, and radioactivity for science majors OH/IN 689
Audiovisual: Subdividing general biology into competency, essential knowledge, multiple-choice courses MO/BZ 473
Audiovisual: Surrogate field experience for geography students CA/SZ 54
Audiovisual: Tachistoscope for undergraduate experimental psychology RI/PS 792
Audiovisual: Teaching about algae with an audio-tutorial module ND/BZ 660
Audiovisual: Teaching acoustics and speech with real time spectrum analyzers AR/PH 40
Audiovisual: Teaching philosophy of science with a laboratory IL/ZZ 206
Audiovisual: Team taught interdisciplinary statistics with multimedia labs CA/MA 49
Audiovisual: Thermal fluids laboratory sequence VA/EN 903
Audiovisual: TV computer graphics in large lecture classes WI/ZZ 943
Audiovisual: TV tapes for engineering properties of materials courses CO/EN 113
Audiovisual: Undergraduate instruction/research in behavior observation and auditory information processing NC/PS 636
Audiovisual: Undergraduate laboratory instruction in nutritional science NY/BZ 566
Audiovisual: Undergraduate medical instrumentation laboratory in engineering and allied health CA/EN 57
Audiovisual: Undergraduate oceanographic curriculum rice university TX/EZ 845
Audiovisual: Undergraduate psychology laboratory for experiments with human subjects TN/PS 834
Audiovisual: Unified science course for minimally motivated students MA/IN 397
Audiovisual: Update of holographic laboratory equipment for engineering technology students WI/PH 939
Audiovisual: Video microscope system for teaching wood anatomy MA/ZZ 391
Audiovisual: Video tape demonstration for chemistry teaching WA/CH 918
Audiovisual: Video tape modules for self-paced introductory physics MO/PH 478
Audiovisual: Video taped problem solutions for introductory physics WI/PH 934
Audiovisual: Video techniques for qualitative analysis for undergraduate social sciences IL/SZ 200
Audiovisual: Videotaped FM simulations in physiology laboratory for health science ND/BZ 652
Audiovisual: Videotapes and worksheets for alternative remedial instruction in chemistry CA/CH 72
Audiovisual: Video-taped observation exercises of infant behavior and developmeent KS/PS 307
Audio-tutorial approach in microbiology to encourage student self-direction MI/BZ 420
Audio-tutorial minicourses for college algebra and trigonometry IN/MA 249
Audio-tutorial teaching module algae ND/BZ 660
Audio-tutorial: Modular materials that assist biology students in investigation IL/BZ 235
Audio-visual assisted introductory biology for science and nonscience majors SC/BZ 796

Audio-visual computer-generated aids mathematical derivations chemistry NJ/CH 520
Audio: Biofeedback laboratory for undergraduate independent research OH/PS 670
Auditory information processing behavior observation NC/PS 636
Auditory phenomena: A computer controlled experimental psychology laboratory for undergraduates MS/PS 469
Auditory stimulator Grayson Stadler MA/PS 383
Australopithecines fiberglass casts National Museums Kenya TX/SZ 850
Auto Answer Modems Vadic CA/IN 42
Autoclave Barnstead AZ/BZ 21
Autoclave electric Barnstead OK/BZ 718
Autoclave Sterilmatic electric Curtin Matheson MI/BZ 424
Autoclave with stand, Sargent Welch S-76156 MS/IN 461
Autogenic Systems dermograph Autogen 3400 LA/PS 339
Automated industrial facility simulator laboratory IN/EN 254
Automated instrumentation: Low cost microcomputer controllers, use, and applications CA/EN 97
Automated plotter drawing: Hands-on introduction to computer graphics for engineering freshmen MS/EN 464
Automatic control systems microprocessors KS/EN 303 KS/EN 304
Automatic controls: Use of microprocessors in automatic control systems KS/EN 303 KS/EN 304
Automatic data reduction: Gamma spectrometry and time analysis for nuclear detection laboratory GA/EN 179
Automatic fraction collector Isco AL/IN 16
Automatic titrator AL/CH 5
Automatic 4-position cell programmer for Coleman 124 spectrophotometer ND/CH 654
Automation Industries ultrasonic transducers OH/PH 684
Automation laboratory computer science instruction minicomputer NM/CS 539
Automation: Measurements in environmental science TX/IN 848
Automation: Project-oriented instruction in electronics and computer interfacing for chemists LA/CH 335
Automex electronic activity meters Columbus Instruments LA/PS 339
Autoranger EDM instrument Keuffel and Esser LA/EN 338
Autotutorial research equipment physiology IL/BZ 215
Autotutorial units, Audio Visual Medical Marketing Inc. AZ/BZ 30
Auto-tutorial audiovisual modules complex instrument operation MA/CH 384
Auto-tutorial: Computer modules for freshmen biology labs NY/BZ 558
Averager signal Nicolet Co. NV/CH 506
Aves 8mm film loop projector 820Z MO/BZ 473
A. R. Vetter Co. FM recording adaptor model 4 ND/BZ 652
A. V. Educational Systems Inc. TV stand OH/PS 688
A/D converter Digital Equipment OH/CH 683
A/O water shaker bath 02156 MN/CH 456
B and K exciter control 1047C OH/EN 703
B and K motion analyzer 4911C OH/EN 703
B and K octave analysis and filter MN/EN 454
B and K power amplifier 2712C OH/EN 703
B and K Precision Corp. oscilloscope 1474 NC/PH 637
B and K sound level system MN/EN 454
B and K standing wave and impedance tube apparatus type 4002 NY/EN 625
B and K type 1023 sine wave generator NY/EN 625
B and K vibration exciter 4808 OH/EN 703
B and L Spec 700 spectrophotometer PA/EN 776
B and L Spectronic 20 colorimeter SD/BZ 813
Bacterial genetics: General, molecular, and population genetics laboratory improvement MA/BZ 386
Bacterial identification: Laboratory assisted biology and chemistry for two-year college NC/IN 838
Bacteriology: Application of television in introductory college microbiology OH/BZ 700
Bacteriology: Aquisition of equipment for a course in immunology NJ/BZ 522
Bacteriology: Audio-tutorial approach in microbiology to encourage student self-direction MI/BZ 420
Bacteriology: Centralized tissue culture facility for students in biological sciences OK/BZ 718
Bacteriology: Equipment and audiovisual aids update for microbiology and biochemistry MI/BZ 424
Bacteriology: Improved facilities for upper division microbiology courses AZ/BZ 21
Bacteriology: Improvement of laboratory instruction in microbiology, genetics, and physiology PA/BZ 789
Bacteriology: Microbiological laboratory equipment for four-year college NJ/BZ 519
Bacteriology: Modules in aquatic microbiology for microbiology, non-microbiology courses NY/BZ 619
Bacteriology: Multiple viewing microscope for teaching advanced methods in microbiology NY/BZ 609
Bacteriology: Specialized microbiology subcourse for undergraduates MA/BZ 379
Baird atomic survey meter IN/PH 241
Balance analytical Mettler NY/BZ 563 NY/BZ 570 VA/EN 895
Balance analytical Sartorius IA/BZ 276
Balance animal Fisher SD/BZ 818
Balance conductor force Ealing TX/PH 846
Balance Dial-O-Gram Ohaus OK/CH 710
Balance electronic Ainsworth SC/BZ 800
Balance electronic Fisher Ainsworth SD/BZ 818
Balance general purpose Mettler SD/BZ 818
Balance Mettler CT/CH 133 NE/BZ 499
Balance Mettler analytical CT/BZ 137 DC/PS 147
Balance O'Haus IA/ZZ 283
Balance Sartorius AZ/BZ 21 OR/BZ 731
Balance single pan Sauter TX/CH 840
Balance top loader Mettler IA/ZZ 283
Balance top loading Mettler NY/BZ 570
Balanced dc amplifiers Teca MA/ZZ 370
Balances analytic Mettler PA/ZZ 766
Balances analytical Mettler TX/CH 844
Balances top loading Sartorius TX/CH 844
Ballantine Dual Trace oscilloscopes 1010A IL/PH 201
Ballentine dual trace oscilloscope TN/PH 820
Balloon pilot Theodolite WA/ZZ 921
Balloon trawl Marinovich MD/BZ 359
BALPLAN brightfield microscope Bausch Lomb NY/BZ 609
Balplan conference microscopes Bausch Lomb TX/EZ 845
Balplan phase contrast microscope Bausch Lomb VA/BZ 905
Balplex stereo image alternator WI/EN 948
Barnes Instatherm infrared thermometer CO/PH 123
Barnstead autoclave C176S AZ/BZ 21
Barnstead electric autoclave A 9223-1 OK/BZ 718
Barnstead electric still A1013 VA/EN 895
Barnstead pure water system D1794 OK/BZ 718
Barrier detector silicon surface Ortec Inc. VT/PH 887
Base maps: Optical equipment for transfer of map data MA/EZ 367
Basic chemical instrumentation with media assistance NY/CH 617
Basic fluid mechanics laboratory for engineering students IL/EN 203
BASIC graphic computer terminal Tektronix NY/BZ 558
Basic laboratory equipment for teaching physiological psychology TX/PS 843
Basic language: Computer-assisted undergraduate research seminar in natural science KS/ZZ 299
Basic principles applied radiation physics NY/PH 599
Basic radiation detection equipment for undergraduate physics instruction IN/PH 241
BASIC statistics library Tektronix NY/BZ 558
Bassin anticipation timer Lafayette Instrument Co. AZ/BZ 32
Batch entry station remote KS/SZ 311
Bath kinematic viscosity Temp-Trol IL/CH 202
Bath water Fisher NC/IN 638
Bath water shaker American Optical NY/BZ 570
Bath water shaker A/O MN/CH 456
Baths Fisher Circustat MN/CH 441
Bausch and Lomb BALPLAN brightfield microscope CLXXTIX NY/BZ 609
Bausch and Lomb Balplan conference microscopes TX/EZ 845
Bausch and Lomb Balplan phase contrast microscope CRBKTLH VA/BZ 905
Bausch and Lomb dissecting microscope BVB 125 DC/PS 147
Bausch and Lomb dual binocular microscope BLD 3Z1H DC/PS 147
Bausch and Lomb micro projector IN/BZ 247
Bausch and Lomb microscope KTVB-73 CA/SZ 104
Bausch and Lomb phase contrast microscope CRB PTH1 NC/BZ 639
Bausch and Lomb refractometer IL/CH 202
Bausch and Lomb Spec 20 BL 33-31-72 MO/BZ 473
Bausch and Lomb Spectronic 100 spectrophotometer SD/BZ 818
Bausch and Lomb Spectronic 20 CT/CH 133
Bausch and Lomb Spectronic 20 spectrophotometer 8420 SC/BZ 796
Bausch and Lomb Spectronic 20 spectrophotometers NY/BZ 549
Bausch and Lomb Spectronic 20 spedrophotometer TN/PH 823
Bausch and Lomb Spectronic 88 NY/BZ 607
Bausch and Lomb spectrophotometer Spectronic 20 AR/IN 34
Bausch and Lomb spectrophotometer 6890XY AL/CH 8
Bausch and Lomb spectrophotometer 710 MI/BZ 419
Bausch and Lomb spectrophotometers Spectronic-21UVD ID/CH 197
Bausch and Lomb stereo interpretation system for aerial photos IL/SZ 237
Bausch and Lomb stereo zoom microscope 31-26-94 NY/EN 575
Bausch and Lomb stereo zoom transfer scope IL/EZ 220 IL/EZ 221
Bausch and Lomb Tri-Simplex micro projector NY/BZ 571
Bausch and Lomb uv spectrophotometer 710 NC/BZ 639
Bausch and Lomb zoom transfer scope IL/SZ 237
Bausch and Lomb zoom transfer scope ZT4-H IL/EZ 220 IL/EZ 221
Bausch and Lomb ZT-4 zoom transfer scope MA/EZ 367
Bausch Lomb spectrophotometers Sargent Welch Co. WY/BZ 954
Bausch Lomb voltage regulated spectronic 20 and 70 spectrophotometer VT/CH 884
Bayesian decision theory: Computer simulated sampling game for study of quality control OK/EN 715
Beam deflectors Byron Ellis Assoc. WI/PH 939

Beam elastic apparatus Tecquipment Incorp. RI/EN 793
Beckman Acculab I infrared spectrophotometer TX/CH 840
Beckman carbon monoxide monitoring system IN/EN 267
Beckman Chem-Mate pH meter MN/CH 456
Beckman dual pen intergrator recorder MN/BZ 446
Beckman Instruments Acculab IV infrared spectrophotometer TN/EN 825
Beckman Instruments Dynograph R-611-S AR/PS 38
Beckman Instruments infrared spectrophotometer Acculab 1 MD/CH 356
Beckman Instruments liquid scintillation counter LS100C MN/CH 445
Beckman JA-20 fixed angle rotor ID/IN 192
Beckman JA-21 fixed angle rotor ID/IN 192
Beckman J-21C high speed refrigerated centrifuge OK/BZ 711
Beckman J-21C refrigerated centrifuge ID/IN 192
Beckman J-21-C centrifuge SC/BZ 800
Beckman liquid scintillation counter LS 100C NY/BZ 549
Beckman liquid scintillation counter LS-100c CO/CH 108
Beckman liquid scintillation counter LS-100C MA/BZ 381
Beckman liquid scintillation counter 3255 MO/IN 480
Beckman liquid scintillation spectrometer LS7000T TX/ZZ 853
Beckman LS3150 liquid scintillation counter MD/IN 360
Beckman L5-50 ultracentrifuge KY/BZ 315 PA/BZ 750
Beckman model J21-C refrigerated centrifuge MI/BZ 415
Beckman model 24 spectrophotometer and recorder MI/BZ 415
Beckman oxygen analyzer with O_2 sensor and flow cell NY/BZ 566
Beckman pH meter model 35000 CA/IN 95
Beckman refrigerated centrifuge J21C and rotors IN/BZ 243
Beckman spectrophotometer 24 MA/CH 380 MN/CH 456
Beckman spectrophotometer 24 with recorder TX/BZ 856
Beckman swinging bucket rotor SW-41Ti CA/IN 95
Beckman SW27 swinging bucket rotor for model L centrifuge IN/BZ 243
Beckman TJ-6R refrigerated centrifuge with rotors MA/BZ 386
Beckman two channel liquid scintillation counter MA/BZ 399
Beckman ultracentrifuge L5-65 CA/IN 95
Beckman uv spectrophotometer 24 LA/BZ 337
Beckman uv visible recording spectrophotometer model 25 CA/IN 95
Beckman Zeromatic pH meters SS-3 pH NY/BZ 549
Beckman 100C liquid scintillation counter IA/BZ 276
Beckman 915A total organic carbon analyzer PA/EN 776
Beehive 100 CRT computer terminal IA/MA 274
Beginning scientific computer programming techniques for undergraduate science students MI/IN 408
Behavior analysis and modification with severely disturbed children NY/PS 600
Behavior animal research student guide PA/IN 753
Behavior animal solid state laboratory PA/PS 760
Behavior belief social psychology MI/PS 410
Behavior circuits time domain teaching OR/EN 740
Behavior developmeent infant video-taped observation KS/PS 307
Behavior kit fixation Stoelting Co. NY/PS 588
Behavior modification: Experimental psychology laboratory for undergraduate instruction NC/PS 640
Behavior motor human perceptual IA/PS 289
Behavior observation auditory information processing NC/PS 636
Behavior systems operant Lafayette NC/PS 640
Behavior therapy: Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Behavioral measurement: Methods in neurobiology FL/IN 167
Behavioral neurophysiological experiments organismic biology laboratory MD/BZ 365
Behavioral objectives: Improvement of instruction through the semi-paced teaching method KY/EN 328
Behavioral observation: Video monitoring and recording equipment for human research sequence AL/PS 17
Behavioral science elementary statistics IA/MA 270
Belief behavior social psychology MI/PS 410
Bell and Gossett steam condensor SU 107-2 OK/EN 717
Bell and Howell Filmsound movie projector 1574C SC/BZ 796
Bell and Howell Kodachrome slide viewers OH/BZ 690
Bell and Howell rear screen 35 mm slide viewers 797 MS/BZ 471
Bell and Howell Ringmaster sound slide projector NY/PS 553
Bell and Howell slide cassette recorder Ringmaster 797 LA/PS 339
Boll jar Veeco NY/EN 575
Belt finishing machine Rockwell SC/EN 807
Belt furnace BTU Engineering PA/EN 761
Beltone audiometers 9-0 IL/PH 201
Bench chemical reactor Engineering Laboratory Design Inc. OK/EN 729
Bench hydraulic Scott Armfield WY/EN 953
Bench optical flatbed Gaertner MO/PH 477
Bench top equipment: Materials testing laboratory for small group instruction RI/EN 793
Bendix Aerovane wind station WA/ZZ 921
Bendix recording rainguage WA/ZZ 921
Benedict Roth metabolism apparatus IL/BZ 198
Berty Carberry spinning basket reactor ID/EN 196
Beseler film loop viewer 2400 IL/IN 229
Betamax recorder Sony IL/SZ 200
Betamax video tape recorder Sony Corp. MO/PH 478
Bibliographic retrieval systems structure determination IL/IN 204
Bibliography: Instructional materials for scientific information retrieval CA/IN 101
Bicron 2M2 scintillation detector IN/PH 241
Bilingual: Individualized mathematics and science instruction TX/IN 841
Bin NIM voltage power supply Ortec Inc. VT/PH 887
Binocular dual Bausch and Lomb DC/PS 147
Binocular microscope American Optical FL/BZ 151
Binocular microscope Bosch Lomb RI/BZ 794
Binocular microscope Nikon NY/BZ 563
Binocular microscopes Wolfe SC/BZ 800
Bio Rad acrylamine electrophoresic system NY/IN 580
Bioacoustics: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Bioamplifier coupler Coulbourn Instruments OH/PS 670
Bioassay: Interactive study group instructional strategy for nutritional science TX/BZ 857
Biochemical laboratory improvement CO/CH 108
Biochemical laboratory refrigerated centrifuge ID/IN 192
Biochemical methods laboratory CA/IN 95
Biochemistry cell biology instruction NC/BZ 639
Biochemistry cell physiology laboratory for Graduates and Pre-professionals AR/IN 34
Biochemistry chemistry curriculum MN/CH 440
Biochemistry course equipment NY/IN 580
Biochemistry laboratory cold room LA/CH 344
Biochemistry laboratory course KY/CH 318
Biochemistry laboratory course fluorescence assay CA/BZ 89
Biochemistry laboratory emphasizing current research techniques CA/CH 56
Biochemistry laboratory equipment ID/CH 197
Biochemistry laboratory equipment program MO/IN 480
Biochemistry laboratory for radioisotopes in metallic studies TX/ZZ 853
Biochemistry laboratory for undergraduates as a separate course VT/CH 884
Biochemistry laboratory instruction KS/CH 297
Biochemistry laboratory instrumentation AL/CH 5 MN/CH 456
Biochemistry laboratory women MA/BZ 381
Biochemistry microbiology equipment audiovisual aids MI/BZ 424
Biochemistry molecular experiments ND/CH 654
Biochemistry technician training introductory laboratory AL/IN 16
Biochemistry undergraduate laboratory: Improvement of scientific instruments for undergraduate science instruction CA/BZ 69
Biochemistry Warda filmstrip cassette MI/BZ 424
Biochemistry: Biochemical methods laboratory CA/IN 95
Biochemistry: Laboratory courses in cell biology with emphasis on immunology VA/BZ 905
Biochemistry: Mathematical biology for physical science and engineering majors VA/MA 897
Biochemistry: Microcomputer applications and affinity chromatography for science undergraduates WI/IN 946
Biochemistry: Physiological and pharmacological laboratory additions to biopsychology core courses DC/PS 147
Biochemistry: Purchase of scintillation counter MN/BZ 438
Biochemistry: Radioisotope usage for interdisciplinary sciences MD/IN 360
Biochemistry: Undergraduate involvement with biological instrumentation OR/BZ 731
Biochemistry: Undergraduate training for chemistry majors, minors and medical technologists AL/CH 10
Biochemistry: Uv enzyme kinetics for medial technology students FL/ZZ 161
Biochemistry, laboratory analytical chemistry, PA/CH 758
Biocom force transducer Gilson WA/BZ 922
Bioelectric measurement: Data collection and analysis in the physiology laboratory TX/BZ 855
Bioelectrical potentials intracellular extracellular ND/BZ 655
Bioethics course for undergraduate non-science majors and the public WI/IN 950
Biofeedback Coulbourn modular laboratory instrument TX/PS 879
Biofeedback electroencephalograph Cyborg LA/PS 339
Biofeedback laboratory for undergraduate independent research OH/PS 670
Biofeedback modules Narco FL/BZ 151
Biofeedback physiograph, electrophoresis, physiological experiments FL/BZ 151
Biofeedback Techniques and Biomonitoring Applications Inc. cassettes: FL/BZ 151
Biofeedback thermal digital thermometer Cyborg LA/PS 339
Biofeedback: Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Biogard laminar flow hood MA/BZ 399
Biohazard hood Contamination Control DE/IN 146
Biohazard laminar flow safety hood NJ/ZZ 528
Biological applications: Physics demonstrations for life science students MI/PH 416
Biological cabinet Bioquest NJ/BZ 519
Biological dredge Classmate FL/BZ 158
Biological effects: Studies on radiation, projection, and radioactivity for science majors OH/IN 689
Biological experiments: Laboratory instrumentation for health science, biology, and related fields PA/ZZ 766
Biological fluids drug analysis pharmacy students VA/CH 907

Biological instrumentation undergraduate involvement OR/BZ 731
Biological physical, social sciences computer assisted instruction WV/CS 925
Biological problems quantitative techniques NY/BZ 632
Biological rhythms: Microcomputer applications and affinity chromatography for science undergraduates WI/IN 946
Biological science elementary teacher AZ/BZ 24
Biological sciences Lap-dissolve teaching ND/BZ 658
Biological sciences tissue culture facility OK/BZ 718
Biological sciences: Talking pages to supplement large class instruction OK/MA 727
Biological taxonomy: Independent field marine laboratory for two-year college students FL/BZ 158
Biologically oriented chemistry laboratory MA/CH 380
Biologists physics lab LA/PH 332
Biologists scanning electron microscopy MI/BZ 404
Biology and chemistry for science and non-science majors KS/BZ 295
Biology cell biochemistry instruction NC/BZ 639
Biology cell laboratory PA/BZ 751 TX/BZ 856
Biology cell laboratory immunology VA/BZ 905
Biology chemistry laboratory assisted NC/IN 638
Biology chemistry liquid scintillation counting experiments MN/CH 445
Biology competency, knowledge, multiple-choice courses MO/BZ 473
Biology computer extended life laboratory NY/BZ 562
Biology developmental laboratory CO/BZ 114
Biology developmental phase microscopy CT/BZ 144
Biology enrichment microseminars VA/BZ 904
Biology experimental cell techniques undergraduate biology majors AL/BZ 3
Biology general deaf students DC/BZ 149
Biology general independent studies MI/BZ 415
Biology human anatomy health LA/BZ 333
Biology human services personnel NH/BZ 510
Biology instruction quantitative notions OH/BZ 666
Biology introductory audio-visual assisted SC/BZ 796
Biology investigation modular materials IL/BZ 235
Biology kits Van Water Rogers CA/IN 85
Biology laboratory alternatives GA/BZ 184
Biology laboratory experiences PA/BZ 788
Biology laboratory methods instruments NY/BZ 570
Biology laboratory organismic neurophysiological behavioral experiments MD/BZ 365
Biology laboratory teaching SC/BZ 802
Biology labs computer modules NY/BZ 558
Biology learning center primarily for nonscience majors SC/BZ 809
Biology majors animal plant physiology laboratories NM/BZ 540
Biology majors genetics laboratory MI/BZ 419
Biology majors: High pressure liquid chromatography teaching tool for undergraduate chemistry IN/CH 263
Biology majors: Laboratory equipment for comparative physiology MN/BZ 446
Biology majors: Modern electronic instrumentation for physical measurements TX/PH 849
Biology majors: New Optics Laboratory Course for Non-Physicists MA/PH 374
Biology marine field experience women MD/BZ 359
Biology marine undergraduate research program CA/BZ 82
Biology mathematical physical science engineering VA/MA 897
Biology minicourses self paced VA/BZ 896
Biology molecular centrifuge OK/BZ 711
Biology molecular instrumental techniques IN/BZ 243
Biology molecular laboratory ultracentrifuge PA/BZ 750
Biology pre-professional studies NY/BZ 549
Biology psychology computer aided laboratories TX/IN 862 TX/PS 860
Biology students animal OK/BZ 719
Biology students animal physiology MO/BZ 472
Biology: Acquisition of liquid scintillation counter and allied equipment IA/BZ 276
Biology: Activity based format for anatomy and physiology laboratory LA/BZ 331
Biology: Application of modern quantitative techniques to biological problems NY/BZ 632
Biology: Application of television in introductory college microbiology OH/BZ 700
Biology: Aquatic ecology for liberal arts undergraduate women VA/IN 901
Biology: Aquisition of equipment for a course in immunology NJ/BZ 522
Biology: Atomic absorption spectrophotometer for analytical chemistry and advanced projects IN/CH 240
Biology: Audio tutorial anatomy and physiology laboratory for health sciences TX/BZ 837
Biology: Audio-tutorial approach in microbiology to encourage student self-direction MI/BZ 420
Biology: Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Biology: Centralized tissue culture facility for students in biological sciences OK/BZ 718
Biology: Collection of fossil vertebrates for use in undergraduate instruction OR/BZ 736
Biology: Comparative animal physiology laboratory OH/BZ 696
Biology: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Biology: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Biology: Computerized data analysis for taxonomy, plant identification and systematics WA/BZ 920
Biology: Constant-environment chambers for growing organisms and tissues for genetics MN/BZ 439
Biology: Construction of inexpensive environmental chamber NY/BZ 571
Biology: Curriculum development in plant, animal, and microbial physiology SD/BZ 813
Biology: Data collection and analysis in the physiology laboratory TX/BZ 855
Biology: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Biology: Electrophysiological Experiments for Science Majors and Medical Paraprofessionals MA/BZ 368
Biology: Embryology and histology for premedical and predental students LA/BZ 341
Biology: Endocrine glands workshop and research laboratory SD/BZ 818
Biology: Environmental plant growth control for students of technical agriculture MN/BZ 459
Biology: Equipment and audiovisual aids update for microbiology and biochemistry MI/BZ 424
Biology: Equipment for laboratories in aquatic ecology NY/BZ 607
Biology: Expansion and improvement of physiology laboratory courses in zoology IA/BZ 277
Biology: Experimental approach to study of botanical microorganisms UT/BZ 882
Biology: Experimental design for physiology concept reinforcement and skill acquisition CA/BZ 75
Biology: Experimental ecology laboratory for life sciences undergraduates NE/BZ 499
Biology: Field studies program for science students NC/BZ 642
Biology: Field vehicle for field sciences ID/IN 190
Biology: Fluorescent microscope for laboratory work in microbiology and immunology WI/BZ 952
Biology: General, molecular, and population genetics laboratory improvement MA/BZ 386
Biology: Guided design in interdisciplinary introductory college science program NJ/IN 529
Biology: Hands-on approach to introductory physiology IL/BZ 198
Biology: Hand-held calculators for courses in statistical methods MT/MA 493
Biology: Honors program in biopsychology NJ/IN 536
Biology: Human anatomy and physiology laboratory for nursing students MS/BZ 471
Biology: Improved facilities for upper division microbiology courses AZ/BZ 21
Biology: Improved use of kodachromes and microscope slides in teaching OH/BZ 690
Biology: Improvement of biological science for the elementary teacher AZ/BZ 24
Biology: Improvement of laboratory instruction in microbiology, genetics, and physiology PA/BZ 789
Biology: Improvement of scientific instruments for undergraduate science instruction CA/BZ 69
Biology: Improvement of undergraduate plant physiology laboratory course CT/BZ 138
Biology: Improving scientific competency for students in allied chemical fields CT/CH 133
Biology: Independent research projects in microbiology CT/BZ 137
Biology: Innovative experimental design course and projects in renovated laboratories MA/BZ 399
Biology: Instructional equipment for human anatomy and physiology AL/BZ 11
Biology: Instructional scientific equipment program RI/BZ 794
Biology: Integrated two-course sequence in genetics LA/BZ 337
Biology: Interactive study group instructional strategy for nutritional science TX/BZ 857
Biology: Introductory laboratory course in neurobiology MN/IN 434
Biology: Investigative laboratories in microbiology for non-science majors IL/BZ 230
Biology: Lab curricula in estuarine ecology, limnology and comparative physiology NY/BZ 563
Biology: Laboratory assistance videotapes for life science CA/BZ 73
Biology: Laboratory equipment for comparative physiology and neurophysiology CT/BZ 140
Biology: Laboratory experiences in the exercise sciences AZ/BZ 32
Biology: Lap-dissolve for use in teaching in the biological sciences ND/BZ 658
Biology: Lecture, laboratory manuals, and audiovisual aids in vertebrate physiology NY/BZ 593
Biology: Marine science fluorometric determination of chlorophyll and water movement NY/ZZ 573
Biology: Mastery learning for students in animal anatomy and physiology AZ/BZ 30
Biology: Measurement of intracellular and extracellular bioelectrical potentials ND/BZ 655
Biology: Measurements in environmental science TX/IN 848

Biology: Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation KY/BZ 315
Biology: Microbiological laboratory equipment for four-year college NJ/BZ 519
Biology: Microcomputer applications and affinity chromatography for science undergraduates WI/IN 946
Biology: Modernized plant physiology laboratory for four-year college PA/BZ 780
Biology: Modules in aquatic microbiology for microbiology, non-microbiology courses NY/BZ 619
Biology: Modulized course in principles of entomology FL/BZ 166
Biology: Multidisciplinary laboratory course for science majors CA/IN 103
Biology: Multidisciplinary science study project center for two-year college OR/IN 748
Biology: Multiple viewing microscope for teaching advanced methods in microbiology NY/BZ 609
Biology: Natural science designed for the disadvantaged learner CA/IN 85
Biology: Nikon Micropan zoom microprojector for microscopically oriented courses MO/BZ 481
Biology: Physiological and pharmacological laboratory additions to biopsychology core courses DC/PS 147
Biology: Physiological ecology for environmental and allied health students ME/BZ 348
Biology: Physiology laboratories and audiovisual demonstrations for pre-health professions NE/BZ 495
Biology: Physiology laboratory enrichment for non-science majors NJ/BZ 530
Biology: Physiology laboratory for students in animal sciences WA/BZ 922
Biology: Purchase of scintillation counter MN/BZ 438
Biology: Research equipment in autotutorial science teaching in undergraduate physiology IL/BZ 215
Biology: Scanning electron microscopy and associated equipment for biologists MI/BZ 404
Biology: Scanning electron microscopy for undergraduate plant morphology instruction CA/BZ 60
Biology: Scanning electron microscopy for undergraduate training OH/BZ 699
Biology: Science fiction films PA/PH 781
Biology: Science laboratory project in support of community research needs CA/BZ 66
Biology: Scientific equipment for licensed practical nursing program AK/BZ 20
Biology: Self-paced genetics, ecology, and systematics modules for general zoology IL/BZ 222
Biology: Self-paced modules for anatomy and physiology courses IN/BZ 247
Biology: Simultaneous recording of three physiological parameters in vertebrates NY/BZ 576
Biology: Slide-tape assisted self-paced biochemistry laboratory for undergraduate women MA/BZ 381
Biology: Specialized microbiology subcourse for undergraduates MA/BZ 379
Biology: Student research instruction in psychobiology CT/IN 131
Biology: Teaching about algae with an audio-tutorial module ND/BZ 660
Biology: Teaching fluorescence assay in a biochemistry laboratory course CA/BZ 89
Biology: Techniques for studying the Lake Michigan biota and environment IL/BZ 209
Biology: Undergraduate involvement with biological instrumentation OR/BZ 731
Biology: Undergraduate laboratory instruction in nutritional science NY/BZ 566
Biology: Updating the biochemistry component of a chemistry curriculum MN/CH 440
Biology: Video microscope system for teaching wood anatomy MA/ZZ 391
Biology: Videotaped FM simulations in physiology laboratory for health science ND/BZ 652
Biology, cell genetics, microbiology research SC/BZ 800
Biology, health science, laboratory instrumentation PA/ZZ 766
Biomathematics computer assisted course MI/MA 418
Biomathematics: Mathematical biology for physical science and engineering majors VA/MA 897
Biomathematics: Survey of applied mathematics for life scientists TX/MA 872
Biomechanics: Laboratory experiences in the exercise sciences AZ/BZ 32
Biomedical electronic instrumentation NY/PH 598
Biomedical electronics MN/PH 453
Biomedical engineering: Undergraduate medical instrumentation laboratory in engineering and allied health CA/EN 57
Biomedical instrumentation PLATO modules IL/EN 233
Biomedical modular instrumentation Pasco NY/PH 598
Biomedical sciences: Mathematical biology for physical science and engineering majors VA/MA 897
Biomedical technology: Perceptual laboratory for technical students NY/PS 588
Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Biomonitoring Applications Inc. cassettes: Biofeedback Techniques and Experiments FL/BZ 151
Biophysics: Mathematical biology for physical science and engineering majors VA/MA 897
Biophysics: Neurophysiological and behavioral experiments in undergraduate organismic biology laboratory MD/BZ 365
Biophysics: Sensory basis of art and human communication FL/IN 172
Biophysics: Unified science course for minimally motivated students MA/IN 397
Biopsychology core courses laboratory additions DC/PS 147
Biopsychology honors program NJ/IN 536
Biopsychology: Laboratory courses in physiological psychology PA/PS 755
Bioquest biological cabinet NJ/BZ 519
BioQuest laminar flow hood L5325 OK/BZ 718
BioRad Co. fraction collector 1320 MI/BZ 419
Biorad electrophoretic apparatus 150A TX/BZ 856
Bioscience students: Computer based modular exercies for introductory physics OH/PH 674
Biosocial science program Coe College IA/IN 272
Biospherics pilot activated sludge plant 61 PA/EN 776
Biota environment Lake Michigan IL/BZ 209
Bio-engineering: Mathematical biology for physical science and engineering majors VA/MA 897
Bipolar comparators Coulbourn Instruments KY/PS 312
Bipolar transistor: Semiconductor material and device project laboratory stressing data validation NY/EN 628
Birth defects: Self paced minicourses in biology for the general student VA/BZ 896
Birth of modern physics: Teaching philosophy of science with a laboratory IL/ZZ 206
Bison Polaroid camera attachment OH/EZ 680
Bison seismic instrument OH/EZ 693
Bison 1415 digital cassette recorder OH/EZ 680
Bison 1575B signal enhancement seismograph HI/EZ 189
Bison 1580 signal enhancement seismograph OH/EZ 680
Bison 2350B earth resistivity meter HI/EZ 189
Bistable storage oscilloscope Tektronix AZ/EN 25
Bit Pad digitizer Summagraphics TX/EN 851
Black and white monitors with audio Panasonic MA/PS 388
Black holes: Booklets of undergraduate physics course material from current research CA/PH 63
Blender Mill Pica Pitchford MA/EZ 396
Blood flowmeter electromagnetic Carolina Medical Electronics IL/EN 234
Blood gas analysis: Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Blood pressure direct monitoring: Animal physiology for sophomore biology students MO/BZ 472
Blood pressure recorder Pasco PA/PH 785
Blood pressure recorder: Medical electronic instrumentation for pre-medical students TN/PH 820
Blood pressure transducer Millar Instruments IL/EN 234
Blood pressure transducer: PLATO lesson modules for biomedical instrumentation IL/EN 233
Bloom's Taxonomy: Development of interdisciplinary social science research skills AL/IN 13
Blower air Roots Peeco, Inc. RI/BZ 794
Blower 2C3301-CO and weather cover NC/IN 638
Blue M Electric Co. gravity convection incubator 200 A MI/BZ 420
Blue M gravity convection incubators MA/BZ 386
Blue M muffler furnace E55 SC/EN 807
Blue Spruce Biological prepared microscope slides CO/BZ 114
Blue-M drying oven 30C DC/PS 147
Board microcomputer Digital Equipment Corp. TN/PS 834
Board PASLA serial interface Interdata NE/CS 502
Board serial input output NE/CS 502
Boards interface realtime clock State Systems Inc. MS/PS 469
Boards microcomputer interfacing E and L Instruments Inc. VT/EN 891
Boat Boston Whaler Mercury engine IL/BZ 209
Boat Cuddy cabin FL/IN 153
Boat handling training: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Boat Mako Mercury engines IL/BZ 209
Boat Mako outboard MD/BZ 359
Boat trailer Murray FL/IN 153
BOD incubator Fisher NC/IN 638
BOD oxygen probe Yellow Springs Instruments VA/IN 901
Body composition measurements: Undergraduate laboratory instruction in nutritional science NY/BZ 566
Bomb calorimeter adiabatic Parr IL/CH 202
Bonder wedge K and S PA/EN 761
Bone identification: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Booklets of undergraduate physics course material from current research CA/PH 63
Boonton 72BD capacitance meter CA/EN 88
Bootstrap loader Digital Equipment Corp. WV/CS 925
Borer increment Swedish FL/IN 159
Bosch and Lomb binocular microscope BRB321P RI/BZ 794
Bosch and Lomb spectrophotometer 70-6 RI/BZ 794
Boston Whaler 17 ft boat 85 h.p. Mercury engine IL/BZ 209
Botanical microorganisms experimental approach UT/BZ 882
Botany: Computerized data analysis for taxonomy, plant identification and systematics WA/BZ 920

Botany: Scanning electron microscopy for undergraduate plant morphology instruction CA/BZ 60
Botany: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Botany, field experience FL/IN 156
Botony: Audio-visual assisted introductory biology for science and nonscience majors SC/BZ 796
Bottle sampling nonmetallic Classmate Kemmerer FL/BZ 158
Bowens Engineering Co. laboratory Spray-Aire dryer UT/EN 880
Boxcar integrator Princeton Applied Research IN/IN 259
Boxes rodent shuttle BRS/LVE PA/PS 760
Brady anatomy and physiology cassette sound/color filmstrips AP-15 AL/BZ 11
Brain research: Student research instruction in psychobiology CT/IN 131
Braun Thermomix shaking water bath KS/CH 297
Breadboard laboratory Heath AR/PH 36
Breadboard laboratory Heath Co. MI/IN 423
Breadboard system digital E and L Instruments MO/EN 486
Breadboard systems digital E and L Co. PA/CH 782
Breadboarding system E. L. Instruments KY/EN 327
Breadboards E and L MA/CS 393
Breadboards Instruments E and L KS/EN 303 KS/EN 304
Breaker glass knife DuPont Sorvall VA/BZ 905
Bridge Digi-Bridge RLC impedance General Radio HI/EZ 189
Bridge Wheatstone Pasco TX/PH 849
Brightfield microscope BALPLAN Bausch Lomb NY/BZ 609
Brightfield 100X objective with iris NY/BZ 609
Brinkman micromanipulator MD/BZ 365
Brinkman sonic oscillator grinder model Polytron AL/IN 16
Bristol compound microscope MI/BZ 419
Bronica camera CA/SZ 104
Bronwill sonicator CT/BZ 137
BRS/LVE modular human test system LA/PS 339
BRS/LVE rodent shuttle boxes PA/PS 760
Bruel and Kjaer artificial voice 4219 ME/EN 351
Bruel and Kjaer environmental noise classifier 166B ME/EN 351
Bruel and Kjaer measuring microphone model 4161 AR/PH 40
Bruel and Kjaer microphone power supply model 2801 AR/PH 40
Bruel and Kjaer microphone preamplifier model 2627 AR/PH 40
Bruel and Kjaer random noise generator 1405 ME/EN 351
Bruel and Kjaer two-channel microphone selector 4408 ME/EN 351
Brush Gould dual channel recorder ND/BZ 655
BTU Engineering VQ series belt furnace PA/EN 761
Buchler density gradient mixer S-24950 TX/BZ 856
Buchler disc gel electrophoresis apparatus IN/BZ 243
Buchler Polyanalyst disc electrophoresis apparatus 3-1751A OR/BZ 731
Buchler Polyanalyst disc gel electrophoresis ND/CH 654
Buchler power supply ND/CH 654
Buchler 4-2500 digital chloridometer ME/BZ 348
Builder package monitor PAM/D Texas Instruments TX/IN 862
Burhler polishing wheels 47-1850-160 SC/EN 807
Burrows seed germinator 1844 MN/BZ 459
Burrows 2650 vertical mixer KS/EN 300
Burst generator, tone custom built TX/EN 852
Business students algebra computer assisted MA/MA 369
Business students operations research algebra MS/MA 363
Business: Small computer for students and faculty in several departments CA/IN 67
Business: Talking pages to supplement large class instruction OK/MA 727
Buy-15 injection molding machine MA/EN 394
Byron Ellis Assoc. beam deflectors WI/PH 939
Byron Ellis Assoc. front surfaced mirror WI/PH 939
Byron Ellis Assoc. plate holder WI/PH 939
Byron Ellis Assoc. 3ft. by 4ft. holographic table WI/PH 939
B. F. Goodrich microtower trickling filter PA/EN 776
B.O.D. cabinets Freas UT/BZ 882
C and M Seismograph Equipment Co. seismic cable MI/EZ 432
Cabin boat Cuddy FL/IN 153
Cabinet NJ/CS 532
Cabinet biological Bioquest NJ/BZ 519
Cabinets B.O.D. Freas UT/BZ 882
Cabinets fossil storage OR/BZ 736
Cable connections telephone RAM OH/CH 673
Cable seismic C and M Seismograph Equipment Co. MI/EZ 432
Cage sound Marietta Apparatus IL/PS 223
Cages animal Carolina Biological Supply MS/IN 461
Cages animal Lafayette NC/PS 640
Cages modular test Coulbourn Instruments PA/PS 755
Cahn Electrobalance rigged for surface tension NJ/CH 526
CAI in engineering: Microcomputers for CAI in introductory undergraduate electrical engineering MI/EN 426
CAI microcomputers electrical engineering MI/EN 426
Calcomp drum plotter 1039 with a 906 controller MS/EN 464
Calcomp plotter 1037 WI/ZZ 938
Calcomp plotter 1039 with 906 control TX/EN 865
Calcomp software TX/EN 865
Calculator Canon PA/ZZ 766
Calculator hand-held NY/PH 560
Calculator Hewlett Packard VA/BZ 904
Calculator Micro Computing Machines CA/IN 67
Calculator programmable Hewlett Packard GA/EN 179
Calculator programmable Monroe NY/MA 621
Calculator programmable printer Texas Instruments IA/MA 271
Calculator programmable Tektronix KS/ZZ 302
Calculator programmable Texas Instrument VT/CS 888
Calculator programmable Texas Instruments NC/PS 640
Calculator statistical Monroe NY/MA 621
Calculators printer programmable Texas Instruments KS/SZ 312
Calculators programmable computer programming VT/CS 888
Calculators programmable Hewlett Packard MT/MA 493
Calculators programmable plotter combinations IA/MA 287
Calculators programmable Texas Instruments MT/MA 493 NC/MA 641
Calculators statistical methods MT/MA 493
Calculators statistical Monroe NY/MA 579
Calculators statistics instruction NY/MA 621
Calculators Texas Instruments WY/BZ 954
Calculus algebra computer modules SC/MA 799
Calculus computer CT/MA 145
Calculus computer applications MS/MA 468
Calculus computer oriented discrete models NY/MA 622
Calculus supplement: Computer applications of calculus MS/MA 468
Calculus: Computer assisted instruction in intermediate algebra for business students MA/MA 369
Calculus: Talking pages to supplement large class instruction OK/MA 727
Calibration standards electronic test equipment CA/EN 43
Calibrator portable Fluke CA/EN 43
Calipers skinfold Lange NY/BZ 566
Calorimeter adiabatic bomb Parr IL/CH 202
Calorimeter differential scanning Perkin Elmer CO/CH 116
Calorimeter oxygen microbomb Phillipson NE/BZ 499
Calorimeter solution Parr IL/CH 202 MN/CH 441
Calorimeters oxygen bomb Parr WV/CH 929
Calorimetry solution combustion organic chemistry WV/CH 929
Camera autoerase storage oscilloscope Tektronix NY/BZ 549
Camera Bronica CA/SZ 104
Camera color portable Sony IL/SZ 200
Camera color Sony MI/CH 430
Camera color TV Sony OK/EN 714
Camera IVC LA/BZ 341
Camera kit 35mm 42-12-29-15 NY/BZ 609
Camera Laue Phillips WI/IN 951
Camera lens video Canon OH/BZ 700
Camera lenses Nikon MA/CH 384
Camera monochrome video Panasonic AL/PS 17
Camera movie projector Sankyo sound IN/ZZ 251
Camera Nikon AFM Microflex ND/EZ 659
Camera Olympus SC/BZ 809 SD/PH 811
Camera oscilloscope tektronix GA/PH 183
Camera oscilloscope Tektronix KY/EN 322
Camera Pentax CA/SZ 104
Camera Polaroid Bison OH/EZ 680
Camera Polaroid Land CA/EN 88
Camera portable production Hitachi SC/BZ 796
Camera telescopically mounted Polaroid IL/IN 229
Camera timelapse CA/EN 83
Camera TV color chromavue Magnavox MA/ZZ 391
Camera video ac adaptor OH/BZ 700
Camera video Panasonic OH/BZ 700
Camera video RCA Corp. OH/BZ 690
Camera Weissenberg Charles Supper Co. IN/IN 259
Cameras FL/IN 159
Cameras DeBye-Scherrer Phillips WI/IN 951
Cameras Nikon underwater photography CA/BZ 82
Camera, color portable MA/PS 388
Camera, video Panasonic NC/PS 636
CAN system courseware Toronto University MA/MA 369
Canberra Ge(Li) detector with cryostat and preamplifier GA/EN 179
Canberra multichannel analyzer 8100-1K with input and output options GA/EN 179
Canberra NIM coincidence system GA/EN 179
Cancer research: Nuclear magnetic resonance spectrometry in undergraduate teaching and research IN/CH 248
Cancer: Self paced minicourses in biology for the general student VA/BZ 896
Candy: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Cannon Instrument Co. viscometer CUSMDU SD/CH 817
Canon SX-310 calculator PA/ZZ 766
Canon video camera lens f2 17-102mm OH/BZ 700
Capacitance meter Boonton CA/EN 88
Caramate rear screen slide projector Singer MA/BZ 381
Caramate Singer MN/CH 442
Caramate Singer mm sound slide SC/BZ 802
Caramate slide sound projector Singer IN/EN 257
Carbon analyzer organic Beckman PA/EN 776
Carbon dioxide infrared gas analyzer Intertech Corp. IN/ZZ 251
Carbon dioxide tissue culture incubator LabLine OK/BZ 718
Carbon monoxide monitoring Beckman IN/EN 267
Card microcomputer MOS Technology Inc. AZ/EN 31
Card reader assembly, Data General FL/MA 171
Card reader Micro Computing Machines CA/IN 67

Card reader optical scan Hewlett Packard KS/ZZ 299
Card reader Wang OK/SZ 723
Cardiac pacemaker: Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Cardioid darkfield condenser 31-32-59 NY/BZ 609
Cardiology: Physiology laboratory enrichment for non-science majors NJ/BZ 530
Cardiovascular simulator Pasco NY/PH 598 TX/PH 849
Career planning: Thematic approach to undergraduate social science curriculum VA/SZ 906
Careers in optics: Optics for pre-college science teachers and scientists NY/EN 627
Carl Zeiss light section microscope PA/EN 761
Carolina Biological anatomical models TX/BZ 837
Carolina Biological anatomical models, AZ/BZ 30
Carolina Biological disarticulated human skeleton TX/BZ 837
Carolina Biological microdissecting kits CO/BZ 114
Carolina Biological microscope slide cabinets CO/BZ 114
Carolina Biological Supply articulated human skeleton TX/SZ 850
Carolina Biological Supply disarticulated human skeleton TX/SZ 850
Carolina disarticulated human skeleton 24-6740 LA/BZ 333
Carolina Medical Electronics electromagnetic blood flowmeter 501 IL/EN 234
Carousel Kodak dissolve control GA/CH 185
Carousel projector computer terminal interface OH/PH 674
Carousel 750 projectors Kodak AL/EZ 1
Carrel study Quest SC/BZ 809
Carriage, towing custom built TX/EN 852
Carson Astronomical Instruments heliostat CO/ZZ 120
Cartographic mapping graphic terminal KY/EZ 329
Cartography computer geography IA/SZ 290
Cartography: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Cartridge data Scotch OH/SZ 676
Cartridge disk TX/IN 862
Cartridge disk drive control unit DEC NJ/CS 532
Cartridge tape recorder Tektronix MN/EN 454
Carver press 2086 OH/CH 702
Cary Varian 17D ultraviolet, visible and near infrared spectrophotometer GA/CH 182
Cary 219 uv/visible spectrophotometer KS/ZZ 302
Case studies: Design projects for freshman engineering KS/EN 310
Case studies: Honors program in life science ethics NJ/IN 537
Case studies: Mathematics problems from regional industries for undergraduate majors OK/MA 713
Cassette player video color NY/EZ 551
Casseducator Sharp cassette player OH/CH 673
Cassegrain Schmitt telescopes Celestron International portable GA/PH 177
Cassette color video recorder Sony OK/EN 714
Cassette data recorder physiotape Narco Biosystems NE/BZ 495
Cassette data recorder physiotape Narco BioSystems PA/BZ 788
Cassette duplicator Recordex Superpro TX/IN 841
Cassette editing recorder Panasonic MI/CH 430
Cassette filmstrip biochemistry Wards MI/BZ 424
Cassette player Audiotronics Corp. SC/BZ 809
Cassette player Casseducator Sharp OH/CH 673
Cassette player video Sony AK/BZ 20
Cassette recorder audio Superscope VT/EN 891
Cassette recorder digital Bison OH/EZ 680
Cassette recorder editing unit, video Panasonic MA/PS 388
Cassette recorder Panasonic IL/BZ 235 MI/CH 430
Cassette recorder player, video Panasonic MA/PS 388
Cassette recorder portable Sony IN/EN 257
Cassette recorder video Panasonic OH/BZ 700
Cassette recorders portable FL/IN 159
Cassette recorders Realistic CTR-29 AL/EZ 1
Cassette recording tapes video OH/MA 694
Cassette sound/color filmstrips AP-15 Brady anatomy physiology AL/BZ 11
Cassette tape drive Techtron VA/SZ 900
Cassette tape recorder digital TX/CS 864
Cassette tape: Embryology and histology for premedical and predental students LA/BZ 341
Cassettes video Sony OH/SZ 676
Castle tissue culture incubation 1250 NC/BZ 639
Casts hominid fiberglass physical anthropology TX/SZ 850
Cataloguing student conceptual models in introductory university physics MA/PH 390
Cathode ray terminals KS/SZ 311
Cathode ray tube for demonstration OK/CH 710
Cave Optical Astrola 12.5 inch D telescope SD/PH 811
CCI model 741 Biohazard laminar flow safety hood NJ/ZZ 528
CDC PLATO computer economics lessons MN/SZ 443
Celenese centrifugal circulating pump, IL/EN 203
Celestron International portable 5 inch Schmitt Cassegrain telescopes GA/PH 177
Celestron International telescope C8 IL/IN 229
Cell biology biochemistry instruction NC/BZ 639
Cell biology in techniques undergraduate biology majors AL/BZ 3
Cell biology laboratory for biology majors TX/BZ 856
Cell biology laboratory immunology VA/BZ 905
Cell biology laboratory improvement project PA/BZ 751
Cell biology: Biochemical methods laboratory CA/IN 95
Cell biology: Centralized tissue culture facility for students in biological sciences OK/BZ 718
Cell biology: Ten-week introductory laboratory and technician training in biochemistry AL/IN 15
Cell biology, genetics, microbiology research SC/BZ 800
Cell diffusion Engineering Lab Design NY/EN 603
Cell disruption bomb Parr CO/CH 108
Cell fractionation: Undergraduate experience using modern instrumental techniques in molecular biology IN/BZ 243
Cell fuel Engelhard GA/PH 181
Cell physiology laboratory biochemistry AR/IN 34
Cell physiology: Laboratory courses in cell biology with emphasis on immunology VA/BZ 905
Cell programmer Coleman spectrophotometer ND/CH 654
Cell studies: Innovative experimental design course and projects in renovated laboratories MA/BZ 399
Cell ultrafiltration Amicon KS/EN 300
Cells load Lebow MI/PH 429
Cellular fractionation: Super-speed centrifuge for molecular biology OK/BZ 711
Cenco gas chromatograph 66002N AL/CH 8
Cenco Millikan oil drop apparatus AL/CH 8
Cenco spectrometer 3438 AW AL/CH 8
Cenco Tops overhead projector 56013 AL/CH 8
Center learning biology SC/BZ 809
Centralized data acquisition system for undergraduate chemical engineering laboratory CO/EN 121
Centralized tissue culture facility for students in biological sciences OK/BZ 718
Centrifugal circulating pump, Celenese IL/EN 203
Centrifuge Beckman SC/BZ 800
Centrifuge Damon-IEC CA/BZ 69
Centrifuge IEC SD/BZ 818
Centrifuge IEC general purpose PA/BZ 780
Centrifuge International Equipment Co. NJ/BZ 522
Centrifuge microhematocrit Clay Adam NJ/BZ 530
Centrifuge molecular biology OK/BZ 711
Centrifuge refrigerated Beckman ID/IN 192 IN/BZ 243 MA/BZ 386 MI/BZ 415 OK/BZ 711
Centrifuge refrigerated biochemical laboratory ID/IN 192
Centrifuge refrigerated DuPont Sorvall RC-5B AL/BZ 3
Centrifuge refrigerated Fisher KS/EN 300
Centrifuge refrigerated IEC AR/IN 34 IN/ZZ 255 MO/IN 480 NJ/BZ 519 OR/BZ 731 PA/BZ 789 VA/BZ 905
Centrifuge refrigerated Sorvall ID/CH 127
Centrifuge refrigerated superspeed Sorvall KS/CH 297
Centrifuge rotor Sorvall ID/CH 197
Centrifuge rotor sucrose gradient IEC AL/IN 16
Centrifuge Sorvall NJ/ZZ 528
Centrifuge Sorvall preparative Dupont VT/CH 884
Centrifuge Sorvall RC-5B DuPont SV-80 vertical rotor AL/BZ 3
Centrifuges Servall GLC-2 CT/BZ 137
Centrifuge, clinical International IA/ZZ 283
Centronics microprinter P-1 IN/EN 252
Centronics printer interface, FL/MA 171
Centronics printer 306 IN/EN 266
Centronics 761 terminal printer CO/EN 121
Chamber animal test Coulbourn Instruments TN/PS 834
Chamber electrophoresis Gelman IN/BZ 243 VA/CH 898
Chamber Environator growth Percival SD/BZ 813
Chamber environmental inexpensive construction NY/BZ 571
Chamber environmental Lab-Line NC/ZZ 651
Chamber growth Environmental IN/ZZ 251
Chamber ion Victoreen TN/PH 824
Chamber photosynthetic Hoefer Scientific IN/ZZ 251
Chamber plant growth PA/BZ 780
Chamber plant growth Percival Mfg. MN/BZ 446
Chamber plant growth Sherer MN/BZ 459
Chamber sound-treated Tracoustics MI/PS 414
Chamber temperature humidity Sherer MI/BZ 415
Chambers constant-environment organisms tissues genetics MN/BZ 439
Chambers environmental Percival UT/BZ 882
Channel amplifier Narco MN/IN 434
Channel amplifiers couplers Narco MO/BZ 472
Channel flow open experiments OR/EN 734
Channel flow open fluid mechanics laboratory OR/EN 733
Channel obstruction accessories OR/EN 733
Channel recording Gilson WA/BZ 922
Channel, flow Tecquipment IL/EN 203
Charge coupled devices: Solid state physics laboratory for seniors CA/PH 55
Charge transfer: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Charles Supper Co. Weissenberg Camera 9000ST IN/IN 259
Chart mover Harvard Apparatus OH/BZ 696
Chart recorder Cyborg LA/PS 339
Chart recorder strip Honeywell Inc. OK/EN 729
Chart recorder tape sampler Precision Scientific NJ/CH 515
Chart recorders Houston Omniscribe VWR Scientific, IA/BZ 277
Chart recorders medical instruments Gould Inc. IL/EN 234
Charts human anatomical Frohse NY/BZ 571
Chassis Vadic Corp. NY/BZ 562

ChemAnal visible spectrophotometer 9 mod-system OK/CH 710
Chemical engineering control systems laboratory OH/EN 669
Chemical engineering laboratory analytical equipment TN/EN 825
Chemical engineering laboratory approval OK/EN 729
Chemical engineering laboratory computer-aided MO/EN 488
Chemical engineering laboratory data acquisition CO/EN 121
Chemical engineering: Computer-aided process design and simulation NY/EN 606
Chemical engineering: Hybrid computer for engineering education SD/EN 816
Chemical engineers microprocessor laboratory FL/EN 168
Chemical experiments: Laboratory assisted biology and chemistry for two-year college NC/IN 638
Chemical experiments: Laboratory instrumentation for health science, biology, and related fields PA/ZZ 766
Chemical fields allied improving competency students CT/CH 133
Chemical in PLATO instruction IL/EN 231
Chemical instrumentation basic NY/CH 617
Chemical instrumentation computer assisted instruction CA/CH 58
Chemical instrumentation computer-interfaced data acquisition and processing CT/CH 141
Chemical instrumentation for medical technology students VA/CH 898
Chemical instrumentation instruction PA/CH 783
Chemical instrumentation PLATO instruction IL/CH 216
Chemical instrumentation: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Chemical laboratory equipment OR/CH 744
Chemical laboratory instruction audiovisual improvement NJ/CH 516
Chemical process equipment: Improvements in a projects laboratory with a spray dryer UT/EN 880
Chemical reaction mechanism: Dynamic LAP dissolved models for organic chemistry GA/CH 185
Chemical reactor bench Engineering Laboratory Design Inc. OK/EN 729
Chemical technologies energy, environment, courses NY/CH 548
Chemicals food public understanding NY/CH 559
Chemiluminescence photometer recorder Aminco Chem-Glow AL/IN 16
Chemistry analytical atomic absorption spectrometry OR/CH 745
Chemistry analytical atomic absorption spectrophotometer IN/CH 240
Chemistry analytical organic atomic absorption mass spectrometry NY/CH 630
Chemistry Analytical Physical Laboratory PA/CH 782
Chemistry biochemistry curriculum MN/CH 440
Chemistry biology laboratory assisted NC/IN 638
Chemistry biology liquid scintillation counting experiments MN/CH 445
Chemistry biology science non-science majors KS/BZ 295
Chemistry college general approach CO/CH 128
Chemistry computer assisted instruction ND/CH 656
Chemistry computer program library NJ/CH 533
Chemistry course general improvement TX/CH 844
Chemistry course restructuring engineers OK/CH 716
Chemistry curriculum nuclear magnetic resonance spectroscopy OH/CH 705
Chemistry equipment minority students MD/CH 356
Chemistry experiments for non-science majors NH/CH 511
Chemistry experiments physical molecular events NJ/CH 526
Chemistry for non-science majors audiotutorial CA/CH 70
Chemistry general computer assisted instruction CT/CH 129
Chemistry geology, physics, x-ray diffraction WI/IN 951
Chemistry health science laboratory instrumentation OK/CH 710
Chemistry independent study audiovisual modules OH/CH 661
Chemistry infra red spectrophotometer modular electronics NE/CH 496
Chemistry instruction mass spectrometer KY/CH 323
Chemistry kits Van Water Rogers CA/IN 85
Chemistry laboratories analytical, physical inorganic NY/CH 574
Chemistry laboratories Atomic Absorption Spectrophotometry Polarography PA/CH 786
Chemistry laboratories gas chromatograph mass spectrometer CA/CH 62
Chemistry laboratories instrumentation CA/CH 50
Chemistry laboratories mass spectrometer NMR KY/CH 320
Chemistry laboratories organic-analytical nuclear magnetic resonance LA/CH 334
Chemistry laboratories: Infrared, visible, ultraviolet spectrophotometers for science and non-science majors TN/CH 821
Chemistry laboratory audiovisual materials data assessment MN/CH 442
Chemistry laboratory biologically oriented MA/CH 380
Chemistry laboratory computer assisted data collection OH/CH 683
Chemistry laboratory environmental electron capture gas chromatography NY/IN 578
Chemistry laboratory equipment MN/CH 441
Chemistry laboratory interfacing microcomputer instruments PA/CH 787
Chemistry laboratory organic experiments modernization OH/CH 702
Chemistry laboratory organic LAP dissolve slide presentations NE/CH 497
Chemistry laboratory organic modernization TX/CH 840
Chemistry laboratory organic nuclear magnetic resonance spectroscopy IA/CH 273
Chemistry laboratory organic spectrophotometers WA/CH 919
Chemistry laboratory organic updating AL/CH 18
Chemistry laboratory physical data handling VA/CH 908
Chemistry laboratory physical gel permeation chromatography MN/CH 450
Chemistry laboratory physical life sciences SD/CH 817
Chemistry laboratory Piaget science majors LA/CH 346
Chemistry laboratory Piagetian science majors MS/CH 462
Chemistry labs spectroscopy experiments GA/CH 182
Chemistry majors: Senior level environmental air pollutants sampling and monitoring course IN/EN 267
Chemistry majors, minors undergraduate training AL/CH 10
Chemistry mathematical derivations computer-generated audio-visual aids NJ/CH 520
Chemistry nuclear laboratory equipment CO/CH 119
Chemistry nuclear magnetic resonance spectroscopy WI/CH 932
Chemistry organic audiovisual prelab demonstrations TN/CH 833
Chemistry organic combustion solution calorimetry WV/CH 929
Chemistry organic course NMR WA/CH 924
Chemistry organic courses equipment enhancement AL/CH 8
Chemistry organic mass spectrometer WI/CH 936
Chemistry organic NMR spectrometer NC/CH 635
Chemistry organic structural analysis MA/CH 373
Chemistry physical digital data NV/CH 506
Chemistry physical experiments NE/CH 501
Chemistry physical laboratory equipment IL/CH 202
Chemistry physical life sciences AR/CH 39
Chemistry physical theoretical CA/CH 94
Chemistry physics laboratories computer interface NY/PH 595
Chemistry proton magnetic resonance experiments SC/CH 801
Chemistry remedial instruction CA/CH 72
Chemistry remedial laboratory CO/CH 109
Chemistry students analytical atomic absorption spectroscopy TX/CH 838
Chemistry teaching video tape WA/CH 918
Chemistry television computer graphics MI/CH 430
Chemistry training NMR spectrophotometer CT/CH 142
Chemistry undergraduate chromatography IN/CH 263
Chemistry undergraduate instrumental analysis VA/CH 899
Chemistry undergraduate mass spectroscopy CA/CH 45
Chemistry undergraduate self-study modules OK/CH 725
Chemistry undergraduate spectrophotometer photofluorometer VT/CH 886
Chemistry undergraduate training majors, minors medical technologists AL/CH 10
Chemistry underprepared learners modular instruction IL/CH 227
Chemistry: Addition of mass spectrometry to a spectrometric analysis course OR/CH 741
Chemistry: Advanced instrumental analysis CO/CH 116
Chemistry: An audiovisual improvement in chemical laboratory instruction NJ/CH 516
Chemistry: Applications of small computers in experiment control MD/CH 364
Chemistry: Aquatic ecology for liberal arts undergraduate women VA/IN 901
Chemistry: Atomic absorption spectrophotometry in undergraduate quantitative analysis NY/CH 568
Chemistry: Biochemical laboratory improvement CO/CH 108
Chemistry: Biochemical methods laboratory CA/IN 95
Chemistry: Biochemistry laboratory emphasizing current research techniques CA/CH 56
Chemistry: Biochemistry laboratory for radioisotopes in metallic studies TX/ZZ 853
Chemistry: Biochemistry laboratory for undergraduates as a separate course VT/CH 884
Chemistry: Centralized data acquisition system for undergraduate chemical engineering laboratory CO/EN 121
Chemistry: Chemical instrumentation for medical technology students VA/CH 898
Chemistry: Cold room for biochemistry instructional laboratory LA/CH 344
Chemistry: Computer assisted freshman thermodynamics and kinetics MN/CH 449
Chemistry: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Chemistry: Computer assisted teaching of organic synthesis MA/CH 389
Chemistry: Computer audio visual assisted instruction in chemical instrumentation CA/CH 58
Chemistry: Computer graphics in physical science classes KS/CH 294
Chemistry: Economics of undergraduate laboratory instruction OH/CH 664
Chemistry: Educating pharmacy students about drug analysis in biological fluids VA/CH 907
Chemistry: Electronic measurements for scientists GA/PH 175
Chemistry: Environmental research institute and simulated undergraduate research laboratory NY/CH 577
Chemistry: Environmental technician training for two-year college students NJ/CH 515
Chemistry: Equipment and audiovisual aids update for microbiology and biochemistry MI/BZ 424

Chemistry: Equipment for introductory biochemistry laboratory courses ID/CH 197
Chemistry: Equipment for upper division undergraduate applied chemical laboratory work OR/CH 744
Chemistry: Guided design in interdisciplinary introductory college science program NJ/IN 529
Chemistry: High performance liquid chromatography in undergraduate courses and research MI/CH 412
Chemistry: High pressure liquid chromatography NY/CH 556
Chemistry: High speed refrigerated centrifuge in the modern biochemical laboratory ID/IN 192
Chemistry: Improvement in organic, inorganic, and student research laboratories CA/CH 76
Chemistry: Improvement in public understanding of chemicals in food NY/CH 559
Chemistry: Improvement of reading skills using science course materials AZ/CH 26
Chemistry: Improvement of undergraduate laboratory instruction in biochemistry KS/CH 297
Chemistry: Improving instruction in chemical instrumentation PA/CH 783
Chemistry: Improving scientific competency for students in allied chemical fields CT/CH 133
Chemistry: Incorporation of NMR spectroscopy into undergraduate organic laboratory NY/CH 612
Chemistry: Instrumental analysis capabilities improvement for undergraduates KY/CH 316
Chemistry: Instrumental analysis incorporating mass spectroscopy and modular electronic instrumentation PA/CH 749
Chemistry: Instrumental analysis, atomic absorption, and audiovisual material CT/CH 132
Chemistry: Instrumentation for biochemistry laboratory AL/CH 5
Chemistry: Interactive auto-tutorial audiovisual modules for complex instrument operation MA/CH 384
Chemistry: Interactive microprocessor simulation of mass spectrometers NY/CH 583
Chemistry: Interdisciplinary program in powder X-ray diffraction IL/EZ 236
Chemistry: Laboratory equipment for polymer processing MA/EN 394
Chemistry: Laboratory revision with industrial emphasis MI/CH 422
Chemistry: Lecture vitalization using LAP-dissolve projection NY/CH 590
Chemistry: Mass spectrometer with microcomputer interface for undergraduates TX/CH 835
Chemistry: Mass spectrometry for undergraduates using a Varian EM-600 TX/CH 863
Chemistry: Mass spectroscopy for undergraduate science majors VA/CH 893
Chemistry: Mastery learning with computer assisted testing OH/CH 673
Chemistry: Measurements in environmental science TX/IN 848
Chemistry: Microcomputer applications and affinity chromatography for science undergraduates WI/IN 946
Chemistry: Microprocessors and microcomputers in undergraduate education UT/PH 883
Chemistry: Modern instrumentation for laboratory exercises in biochemistry MN/CH 456
Chemistry: Modern laboratory study of chemical kinetics NY/CH 610
Chemistry: Multidisciplinary laboratory course for science majors CA/IN 103
Chemistry: Multidisciplinary science study project center for two-year college OR/IN 748
Chemistry: Natural science designed for the disadvantaged learner CA/IN 85
Chemistry: New experiments in equilibrium and analysis MN/CH 437
Chemistry: NMR and mass spectroscopy in organic undergraduate laboratory VT/CH 889
Chemistry: Non-science majors courses in energy, environment, chemical technologies NY/CH 548
Chemistry: Nuclear magnetic resonance spectroscopy NM/CH 546
Chemistry: Nuclear magnetic resonance spectroscopy for monitoring individual chemistry projects WI/CH 932
Chemistry: Physiological and pharmacological laboratory additions to biopsychology core courses DC/PS 147
Chemistry: Pilot equipment and instrumentation for engineering technology training PA/EN 776
Chemistry: PLATO instruction in chemical instrumentation IL/CH 216
Chemistry: Project type experiments emphasizing molecular biochemistry for pre-professional students ND/CH 654
Chemistry: Project-oriented instruction in electronics and computer interfacing for chemists LA/CH 335
Chemistry: Project-oriented organic laboratories NY/CH 615
Chemistry: Radioisotope usage for interdisciplinary sciences MD/IN 360
Chemistry: Science fiction films PA/PH 781
Chemistry: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Chemistry: Small computer for students and faculty in several departments CA/IN 67
Chemistry: State-of-the-art instrumentation in drug analysis courses KS/CH 309
Chemistry: Structure determination using spectra and on-line bibliographic retrieval systems IL/IN 204
Chemistry: Teaching fluorescence assay in a biochemistry laboratory course CA/BZ 89
Chemistry: Undergraduate equipment grant for interdisciplinary biochemistry course NY/IN 580
Chemistry: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Chemistry: Upgrading quantitative analysis, instrumental analysis and research MS/CH 465
Chemistry: Uv enzyme kinetics for medial technology students FL/ZZ 161
Chemistry: Water analysis laboratory for environmental technology and engineering IL/EN 226
Chemistry: introductory Piagetian approach FL/CH 173
Chemistry, analytical laboratory in PA/CH 758
Chemistry, economics, computer assisted instruction CA/IN 42
Chemists interfacing electronics computer LA/CH 335
Chem-Glow Aminco chemiluminescence photometer recorder AL/IN 16
Chem-Mate Beckman pH meter MN/CH 456
Chevrolet K-20 4-wheel suburban with deluxe cab ID/IN 190
Child development: Video-taped observation exercises of infant behavior and developmeent KS/PS 307
Children disturbed behavior analysis modification NY/PS 600
Chip microcomputer Mos Technology Inc. VA/CS 914
Chloride titrator radiometer NM/BZ 540
Chloridometer digital Buchler ME/BZ 348
Chlorophyll fluorometric determination marine science NY/ZZ 573
Chopper light beam Ithaco IN/IN 259
Chromatograph detector Perkin Elmer IN/CH 263
Chromatograph gas Gow Mac MA/IN 397 NY/EN 603 TX/CH 840 VA/CH 907
Chromatograph gas Hewlett Packard OH/CH 702 PA/EN 776
Chromatograph gas Perkin Elmer MA/CH 380
Chromatograph gas Varian ID/EN 196 IL/EN 226 NY/IN 578
Chromatograph high pressure liquid Waters NY/CH 556
Chromatograph liquid AL/CH 5
Chromatograph liquid Altex IL/CH 202
Chromatograph liquid Gow Mac CA/CH 50
Chromatograph liquid Gow-Mac MA/CH 380
Chromatograph liquid Perkin Elmer CA/EN 53 IN/CH 263 KS/CH 309
Chromatograph liquid Varian OR/CH 744
Chromatograph 66002N gas Cenco AL/CH 8
Chromatographic theory: High pressure liquid chromatography teaching tool for undergraduate chemistry IN/CH 263
Chromatography affinity microcomputer applications WI/IN 946
Chromatography electron capture gas environmental chemistry laboratory NY/IN 578
Chromatography gel permeation physical chemistry laboratory MN/CH 450
Chromatography high performance liquid MI/CH 412
Chromatography high performance liquid detector Waters Associates MI/CH 412
Chromatography high performance liquid pump Waters Associates MI/CH 412
Chromatography high performance liquid solvent programmer Waters Associates MI/CH 412
Chromatography high pressure liquid NY/CH 556
Chromatography high pressure liquid waters Associates MA/CH 373
Chromatography pump Haskell VA/CH 907
Chromatography refrigerator Kelvinator MN/CH 456
Chromatography refrigerator Puffer Hubbard Co. MI/BZ 419
Chromatography refrigerators Puffer Hubbard MA/BZ 386
Chromatography undergraduate chemistry IN/CH 263
Chromatography: Improvement in public understanding of chemicals in food NY/CH 559
Chromatography: Modern instrumentation for laboratory exercises in biochemistry MN/CH 456
Chromatography: Modernization of organic chemistry laboratory experiments OH/CH 702
Chromatography: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Chromatograph: Improvement of analytical instrumentation and reactor equipment ID/EN 196
Chromavue TV color camera Magnavox MA/ZZ 391
Chromium copper x-ray tubes Phillips WI/IN 951
Chromosome analysis: Advanced techniques in genetics laboratory for biology majors MI/BZ 419
Circadian activity: Undergraduate research program in marine biology CA/BZ 82
Circadian ryhthm studies: Neurophysiological and behavioral experiments in undergraduate organismic biology laboratory MD/BZ 365
Circo automatic sampler MK-VS7 IA/ZZ 283
Circuit analog fluid Technovate VA/EN 902
Circuit design ADAM E and L LA/CH 335
Circuit design digital minicomputer simulation programs OK/CS 726
Circuit fluid system Scott Armfield IA/EN 280
Circuit laboratory hybrid thick film PA/EN 761

Circuit laboratory improvement CA/EN 88
Circuits behavior time domain teaching OR/EN 740
Circuits integrated electronics course IA/PH 275
Circuits pulse introduction SC/EN 803
Circuits TTL integrated instructors package FL/EN 168
Circular fraction collector ISCO LA/CH 344
Circulating centrifugal pump, Celenese IL/EN 203
Circulation: Comparative animal physiology laboratory OH/BZ 696
Circustat baths Fisher MN/CH 441
Civil engineering students laboratory VA/EN 895
Civil engineering: Audio tutorial self paced experiments open channel flow OR/EN 734
Civil engineering: Fluid mechanics laboratory on open channel flow OR/EN 733
Civil engineering: Implementation of interactive computer graphics in undergraduate engineering education WI/EN 947
Civil engineering: Improvement of stereoplotter for engineering students WI/EN 948
Civil engineering: Interactive computer graphics for simulating construction field operations CA/EN 84
Civil engineering: Introductory fluid mechanics for engineers IA/EN 280
Civil engineering: Land surveying measurements and computations laboratory LA/EN 338
Civil engineering: Materials testing laboratory for small group instruction RI/EN 793
Civil engineers hydraulics, hydrology, fluid mechanics experiments VA/EN 902
Clark Bompus plankton sampler Wildlife Supply Co. NY/BZ 563
Classical conditioning: A computer controlled experimental psychology laboratory for undergraduates MS/PS 469
Classmate biological dredge FL/BZ 158
Classmate Kemmerer nonmetallic sampling bottle FL/BZ 158
Classroom demonstration: Experimental psychology laboratory for undergraduate instruction NC/PS 640
Classroom demonstration: Undergraduate medical instrumentation laboratory in engineering and allied health CA/EN 57
Clay Adam microhematocrit centrifuge 0571 NJ/BZ 530
Clay Adams blood cell counter: Microbiological laboratory equipment for four-year college NJ/BZ 519
Clayton Co. steam generator E-33 OK/EN 717
Clinical analysis: High pressure liquid chromatography teaching tool for undergraduate chemistry IN/CH 263
Clinical centrifuge, International IA/ZZ 283
Clinical chemistry techniques: Atomic absorption spectroscopy for analytical chemistry students TX/CH 838
Clinical chemistry: Gamma counter for student instruction in radioimmunoassay NC/ZZ 643
Clinical chemistry: Uv enzyme kinetics for medial technology students FL/ZZ 161
Clinical interviewing: Cataloguing student conceptual models in introductory university physics MA/PH 390
Clock counter Gerbrands Co. KY/PS 321
Clock line Digital Equipment Corp. WV/CS 925
Closed circuit television: Embryology and histology for premedical and predental students LA/BZ 341
Coal chemistry: Combustion and solution calorimetry in undergraduate organic chemistry WV/CH 929
Coater sputter Technics Hummer MI/BZ 404
Coating apparatus specimen Polaron OH/BZ 699
Coating line wire Killion MA/EN 394
Coe College biosocial science program IA/IN 272
Cognitive mapping: Adaptive evaluation structure for computer based instruction IA/SZ 292
Cognitive physchology laboratories computer FL/PS 165
Cognitive psychology laboratory computer PA/PS 784
Cognitive psychology: A computer controlled experimental psychology laboratory for undergraduates MS/PS 469
Cognitive psychology: Human research laboratory for junior level psychology majors AR/PS 38
Cognitive science: Cataloguing student conceptual models in introductory university physics MA/PH 390
Coincidence counting: Gamma spectrometry and time analysis for nuclear detection laboratory GA/EN 179
Coincidence system NIM Canberra GA/EN 179
Cold Room VT/CH 884
Cold room for biochemistry instructional laboratory LA/CH 344
Cold rooms Hotpack Corp. LA/CH 344
Cole Parmer Moto-Flex Tools 9829 PA/PS 755
Coleman photofluorometer 12c VT/CH 886
Coleman spectrophotometer cell programmer ND/CH 654
Coleman spectrophotometer 55 IA/ZZ 283
Coleman 51 CA flame photometer IA/BZ 277
Coliform kit fecal Hach Chemical NC/ZZ 651
Collection of fossil vertebrates for use in undergraduate instruction OR/BZ 736
Collector automatic fraction Isco AL/IN 16
Collector fraction BioRad Co. MI/BZ 419
Collector fraction LKB ID/CH 197 MN/CH 456
College algebra trigonometry NE/MA 503
College geology program for computer literacy MA/EZ 395
College of nursing: Senior level environmental air pollutants sampling and monitoring course IN/EN 267
Collins gasometer (Tissot tank) 120 L P-1700-FLO MS/BZ 471
Colony counters electronic New Brunswick Scientific MA/BZ 386
Color camera Sony MI/CH 430
Color camera, portable MA/PS 388
Color control unit Panasonic OH/BZ 700
Color CRT: Computer assisted introduction to thematic maps for beginning students TN/EZ 830
Color graphics terminals: Real time computer aided laboratories in psychology and biology TX/IN 862
Color monitor Panasonic OH/BZ 700
Color monitor receiver Sony IL/SZ 200
Color monitor receiver Unimedia Sony ND/BZ 652
Color monitor Sony AK/BZ 20
Color portable camera Sony IL/SZ 200
Color recorder player portable MA/PS 388
Color recorder portable Sony IL/SZ 200
Color TV camera chromavue Magnavox MA/ZZ 391
Color TV camera Sony OK/EN 714
Color TV monitors Magnavox MA/ZZ 391
Color video casette player JVC CP5000U NY/EZ 551
Color video cassette recorder Sony OK/EN 714
Color video monitor Sharp XR 2134 13 in. NY/EZ 551
Color video monitor Sony MI/CH 430
Color video tapes made for engineering courses OK/EN 714
Color vision optical stimulator Maxwellian MA/PS 383
Colorimeter Hunterlab KS/ZZ 302
Colorimeter Klett Summerson PA/BZ 789
Colorimeter Spectronic B and L SD/BZ 813
Colorimetry laboratory spectroscopy textile science KS/ZZ 302
Columbus Instruments Automex electronic activity meters LA/PS 339
Column wetted-wall Engineering Lab Design NY/EN 603
Columns micro-Styragel Waters Associates MN/CH 450
Combustion and solution calorimetry in undergraduate organic chemistry WV/CH 929
Comdata acoustic coupler modems TN/SZ 828
Commercial revolution: Economic history from periods of structural economic change VA/SZ 892
Commodore PET computer 2001 ND/CH 656
Commodore PET 2001 computer MD/CH 364
Communication human sensory basis art FL/IN 172
Communication skills: Laboratory revision with industrial emphasis MI/CH 422
Communication theory statistical laboratory DC/EN 150
Communications graphic computer aided lessons architecture students AZ/IN 28
Communications interface module EIA Texas Instruments TX/IN 862
Communications satellites: Introductory physics with an engineering ambience for non-science majors NY/PH 560
Communications: Improvement of laboratory experiences in electronics and electromechanical technology OK/EN 721
Communication, noise control laboratory ME/EN 351
Community college: Swept frequency microwave measurements and measurement of frequency spectrum CA/EN 78
Community income matrix: Interactive computer game on principles of income distribution, economics TX/SZ 854
Comparative animal physiology laboratory OH/BZ 696
Comparative study: Inquiry role approach for teaching physical science NE/PH 498
Comparators bipolar Coulbourn Instruments KY/PS 312
Compartmental analysis: Computer assisted course in biomathematics MI/MA 418
Competency-based self-paced algebra for students with weak mathematical backgrounds MI/MA 433
Competency-based: Activity based format for anatomy and physiology laboratory LA/BZ 331
Competency-based: Adaptive evaluation structure for computer based instruction IA/SZ 292
Competency-based: Addition of mass spectrometry to a spectrometric analysis course OR/CH 741
Competency-based: Basic fluid mechanics laboratory for engineering students IL/EN 203
Competency-based: Chemistry experiments for non-science majors NH/CH 511
Competency-based: Competency-based self-paced algebra for students with weak mathematical backgrounds MI/MA 433
Competency-based: Computer assisted instruction in intermediate algebra for business students MA/MA 369
Competency-based: Computer assisted instruction modules in elementary algebra TN/MA 829
Competency-based: Computer-based testing in a modular remedial physics course NY/PH 550
Competency-based: Demonstrations and interdisciplinary laboratories in engineering science WY/EN 953
Competency-based: Development of interdisciplinary social science research skills AL/IN 13
Competency-based: Educating pharmacy students about drug analysis in biological fluids VA/CH 907
Competency-based: Electronic distance meter used to teach basic surveying SC/EN 806
Competency-based: Electronics instrumentation laboratory for life sciences students PA/PH 785
Competency-based: Electronics technology laboratory for a two year degree TX/PH 842

Competency-based: Equipment enhancement of general and organic chemistry courses AL/CH 8
Competency-based: Experimental design for physiology concept reinforcement and skill acquisition CA/BZ 75
Competency-based: Feasibility study of self-paced algebra and trigonometry for college NE/MA 503
Competency-based: Final phase of anthropology 1 course improvement PA/SZ 774
Competency-based: Fluid power systems laboratory equipment for technology students MI/EN 401
Competency-based: Guided design in interdisciplinary introductory college science program NJ/IN 529
Competency-based: Implementation of interactive computer graphics in undergraduate engineering education WI/EN 947
Competency-based: Improvement of an individualized general chemistry course TX/CH 844
Competency-based: Improvement of instruction through the semi-paced teaching method KY/EN 328
Competency-based: Improvement of undergraduate studies in petrography NY/EZ 569
Competency-based: Individually designed educational activities for teaching introductory psychology NY/PS 553
Competency-based: Innovative experimental design course and projects in renovated laboratories MA/BZ 399
Competency-based: Instructional ethnographic laboratory CA/SZ 92
Competency-based: Instructional scientific equipment for transportation engineering materials laboratory TN/EN 826
Competency-based: Instrumentation for biochemistry laboratory AL/CH 5
Competency-based: Integrated general chemistry for independent study through audiovisual modules OH/CH 661
Competency-based: Interactive flow sheet information processing system NY/EN 581
Competency-based: Introductory physical geology for law enforcement studies students OH/EZ 679
Competency-based: Junior and senior personalized system of astrophysics instruction NM/ZZ 545
Competency-based: Lab curricula in estuarine ecology, limnology and comparative physiology NY/BZ 563
Competency-based: Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Competency-based: Laboratory equipment for physical chemistry labs IL/CH 202
Competency-based: Locational analysis in undergraduate geography and urban planning IA/SZ 291
Competency-based: Lock decoupler accessory for NMR in chemistry labs KY/CH 326
Competency-based: Mass spectrometry for undergraduates using a Varian EM-600 TX/CH 863
Competency-based: Mastery learning for students in animal anatomy and physiology AZ/BZ 30
Competency-based: Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation KY/BZ 315
Competency-based: Methods in neurobiology FL/IN 167
Competency-based: Microprocessors in modeling of electronic industrial controls and instrumentation OR/EN 732
Competency-based: Modularizing an elementary statistics course for behavioral science students IA/MA 270
Competency-based: Modulized course in principles of entomology FL/BZ 166
Competency-based: Multiple instructional innovations in introductory economics IL/SZ 211
Competency-based: Neurophysiological and behavioral experiments in undergraduate organismic biology laboratory MD/BZ 365
Competency-based: Nuclear magnetic resonance spectrometry in undergraduate teaching and research IN/CH 248
Competency-based: Physical chemistry experiments allowing direct visualization of molecular events NJ/CH 526
Competency-based: Physical chemistry for life sciences AR/CH 39
Competency-based: Physiological psychology teaching laboratory for upper division college students OK/PS 728
Competency-based: Project type experiments emphasizing molecular biochemistry for pre-professional students ND/CH 654
Competency-based: Project-oriented instruction in electronics and computer interfacing for chemists LA/CH 335
Competency-based: Purchase of scintillation counter MN/BZ 438
Competency-based: Research and professional capabilities for cell biology, genetics, microbiology SC/BZ 800
Competency-based: Scientific equipment for speech and hearing science undergraduate instruction AZ/ZZ 23
Competency-based: Self paced video and computer assisted instruction in ethnography CA/SZ 93
Competency-based: Self-paced junior/senior level quantum mechanics and statistical mechanics PA/PH 762
Competency-based: Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
Competency-based: Self-paced proficiency modules for teaching statics and dynamics labs IL/EN 228
Competency-based: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Competency-based: Subdividing general biology into competency, essential knowledge, multiple-choice courses MO/BZ 473
Competency-based: Surrogate field experience for geography students CA/SZ 54
Competency-based: Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Competency-based: Thermal fluids laboratory sequence VA/EN 903
Competency-based: Undergraduate instruction in photogeology CA/EZ 87
Competency-based: Use of self-paced instruction in upper level physics SC/PH 797
Competency-based: Uv enzyme kinetics for medial technology students FL/ZZ 161
Competition: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Compiler PAM/D Texas Instruments TX/IN 862
Compiler SAL/D Texas Instruments TX/IN 862
Compilers: Structured FORTRAN for the first course in computer science NY/CS 605
Compound identity: Mass spectrometry for undergraduates using a Varian EM-600 TX/CH 863
Compound microscope Bristol MI/BZ 419
Compression tester accessories, custom built PA/EN 775
Compton effect measurement: Basic principles applied radiation physics NY/PH 599
Computations: Computer augmented general physics for undergraduates OR/PH 742
Computer aided design in engineering design graphics for freshman TX/EN 851
Computer aided instruction in mathematics and physics GA/IN 176
Computer aided laboratories psychology biology TX/IN 862
TX/PS 860
Computer aided lessons on graphic communications for architecture students AZ/IN 28
Computer aided manufacturing for four year engineering college studies PA/EN 769
Computer Amdahl interfaces TX/EN 851
Computer analog EAI SD/EN 816
Computer analog OLIS Inc. NE/CH 501
Computer analogy hybrid Electronic Associates Inc. AZ/EN 25
Computer and audiovisual equipment for teaching mathematics AL/MA 6
Computer applications of calculus MS/MA 468
Computer approach to abstract algebra MN/MA 457
Computer architecture: Individual hands-on computer experience for core computer science CO/CS 112
Computer assisted control in laboratory practice CA/EN 44
Computer assisted course in biomathematics MI/MA 418
Computer assisted economics lessons IN/SZ 260
Computer assisted experimental psychology courses for advanced students MI/PS 402
Computer assisted freshman thermodynamics and kinetics MN/CH 449
Computer assisted instruction ethnography CA/SZ 93
Computer assisted instruction for chemistry, economics, and future studies CA/IN 42
Computer assisted instruction general chemistry CT/CH 129
Computer assisted instruction in intermediate algebra for business students MA/MA 369
Computer assisted instruction in physical, social and biological sciences WV/CS 925
Computer assisted instruction in undergraduate chemistry ND/CH 656
Computer assisted instruction modules for calculus and linear algebra SC/MA 799
Computer assisted instruction modules in elementary algebra TN/MA 829
Computer assisted instruction: Basic chemical instrumentation with media assistance NY/CH 617
Computer assisted instruction: Microcomputers for CAI in introductory undergraduate electrical engineering MI/EN 426
Computer assisted introduction to thematic maps for beginning students TN/EZ 830
Computer assisted introductory sociology and research methods TN/SZ 828
Computer assisted laboratory instruction MA/EN 392
Computer assisted mechanical systems analysis and synthesis laboratory NH/EN 513
Computer assisted teaching of organic synthesis MA/CH 389
Computer assisted testing mastery learning OH/CH 673
Computer assisted: Interactive study group instructional strategy for nutritional science TX/BZ 857
Computer audio visual assisted instruction in chemical instrumentation CA/CH 58
Computer augmented general physics for undergraduates OR/PH 742
Computer based approach to teaching introductory sociology OH/SZ 685
Computer based cognitive psychology laboratory PA/PS 784
Computer based data acquisition in upper division physics laboratories MN/PH 455
Computer based experiments: Electromechanical energy conversion for the eighties NY/EN 591
Computer based modular exercies for introductory physics OH/PH 674
Computer based simulated experiments and exercises for introductory physics FL/PH 155

Computer calculus CT/MA 145
Computer cartography in undergraduate geography IA/SZ 290
Computer CDC PLATO economics lessons MN/SZ 443
Computer chemistry program library NJ/CH 533
Computer Commodore PET 2001 MD/CH 364
Computer control of an interconnected model power system NC/EN 645
Computer control of undergraduate science laboratory experiments MD/IN 361
Computer control projects: Automated industrial facility simulator laboratory IN/EN 254
Computer controlled experimental psychology laboratory MS/PS 469
Computer controlled experiments: Real-time computing in cognitive and physiological psychology laboratories CT/PS 134
Computer course operating systems NJ/CS 532
Computer data analysis: Application of modern quantitative techniques to biological problems NY/BZ 632
Computer data aquisition: Application of modern quantitative techniques to biological problems NY/BZ 632
Computer data collection chemistry laboratory OH/CH 683
Computer Data general Nova 3/12 NY/ZZ 611
Computer DEC MA/MA 369
Computer DEC PDP CT/IN 135
Computer design personal minicomputers aid undergraduate instruction AL/EN 4
Computer digital DEC PDP-11/34 SD/EN 816
Computer digital electronics laboratory NC/PH 637
Computer Digital Equipment MS/PS 469
Computer Digital Equipment Corp. WI/ZZ 941
Computer Digital Equipment LSI-11 peripherals MN/PH 455
Computer display terminal Tektronix KS/CH 294 OR/IN 738 OR/SZ 737
Computer education microcomputer laboratory NV/CS 505
Computer electronics interfacing chemists LA/CH 335
Computer engineering digital design laboratory WI/EN 937
Computer engineering electrical microprocessor laboratory TX/EN 876
Computer equipment for undergraduates OK/SZ 723
Computer ethics NY/IN 585
Computer extended life laboratory studies for general biology NY/BZ 562
Computer facilities upgrading lab experience programming AL/CS 12
Computer game income distribution, economics TX/SZ 854
Computer generated dynamic graphic modules for undergraduate mathematics instruction FL/MA 162
Computer generated phase diagrams in thermodynamaics education IA/EN 279
Computer generated repeatable testing system: Multiple instructional innovations in introductory economics IL/SZ 211
Computer generated TV displays for low resolution class-room instruction WA/MA 916
Computer graphic Tektronix Inc. OR/IN 748
Computer graphics and spectrum analyzer for four year college CA/ZZ 64
Computer graphics based simulations, experiments, and exercises for physics FL/PH 156
Computer graphics capability for computer assisted physics FL/PH 154
Computer graphics educational uses CA/CS 102
Computer graphics engineering curriculum OH/CS 697
Computer graphics engineering education WI/EN 947
Computer graphics engineering freshmen MS/EN 464
Computer graphics for architectural technicians WI/ZZ 938
Computer graphics for instructional use MN/EN 454
Computer graphics in mechanical design TX/EN 865
Computer graphics in physical science classes KS/CH 294
Computer graphics mechanical design TX/EN 868
Computer graphics simulating construction field operations CA/EN 84
Computer graphics simulation construction operations CA/EN 83
Computer graphics structural dynamics NY/EN 586
Computer graphics structural engineering VA/EN 894
Computer graphics Tektronix ND/CH 656
Computer graphics television chemistry MI/CH 430
Computer graphics terminal NY/PH 560
Computer graphics TV lecture classes WI/ZZ 943
Computer graphics: Computer aided instruction in mathematics and physics GA/IN 176
Computer graphics: Computer assisted course in biomathematics MI/MA 418
Computer graphics: Computer integrated teaching modules for engineering design and manufacturing IN/EN 269
Computer graphics: Computer-based laboratory for general statistics AL/MA 7
Computer graphics: Microprocessors and microcomputers in undergraduate education UT/PH 883
Computer graphics: Minicomputer equipment for computer science instruction and laboratory automation NM/CS 539
Computer graphics: PLATO lesson modules for biomedical instrumentation IL/EN 233
Computer hardware and microcomputer systems laboratory IN/EN 266
Computer hardware microcomputers instruction NV/CS 504
Computer hardware software laboratory for majors in 4-year program MN/CS 451
Computer Heath MN/CH 442
Computer Hewlett Packard NY/EN 581
Computer home Radio Shack MA/IN 397
Computer hybrid engineering education SD/EN 816
Computer information processing laboratory psychology PA/PS 765
Computer instruction adaptive evaluation IA/SZ 292
Computer instrument interface: Computer audio visual assisted instruction in chemical instrumentation CA/CH 58
Computer integrated teaching modules for engineering design and manufacturing IN/EN 269
Computer interface to upgrade undergraduate chemistry and physics laboratories NY/PH 595
Computer interface 3-M test scorer MI/MA 433
Computer interface: Engineering physics equipment and interfacing with microcomputers OH/PH 678
Computer interfacing: Undergraduate instructional equipment for electrical engineering and computer science MO/EN 486
Computer laboratory: Individual hands-on computer experience for core computer science CO/CS 112
Computer languages teaching interactive displays IN/CS 245
Computer lecture course microprocessor laboratory VA/CS 913
Computer libraries for standard parts: Computer aided design in engineering design graphics for freshman TX/EN 851
Computer literacy geology MA/EZ 395
Computer maintenance electronic technicians AR/CS 35
Computer managed instruction: Multiple instructional innovations in introductory economics IL/SZ 211
Computer managed laboratories for four cognitive physchology courses FL/PS 165
Computer management and test generation for self-paced precalculus IA/MA 274
Computer mapping cultures OR/SZ 737
Computer mathematics courses FL/MA 171
Computer microprogrammable Hewlett Packard CO/CS 112
Computer miniature impulse Grozier Technical Systems ME/EN 351
Computer modeling of wilderness recreation travel ID/ZZ 195
Computer modems LA/PH 343
Computer modules for freshmen biology labs NY/BZ 558
Computer network: Minicomputer and microcomputer laboratory for hardware and software instruction MA/CS 393
Computer organization programming microcomputers TX/CS 864
Computer oriented calculus using finite differences and discrete models NY/MA 622
Computer PDP 11/34 FL/PS 165
Computer PDP 11/34 digital Equipment Corp. MA/EN 392
Computer PDP 11/34 Digital Equipment Corp. OH/BZ 666
Computer PDP-11/03 CA/SZ 92 CA/SZ 93
Computer PET Commodore ND/CH 656
Computer Products Inc. RTP process interface CO/EN 121
Computer programming programmable calculators VT/CS 888
Computer programming science students MI/IN 408
Computer programming: Laboratory instrumentation for health science, biology, and related fields PA/ZZ 766
Computer science course MI/CS 417
Computer science education: Structured FORTRAN for the first course in computer science NY/CS 605
Computer science electrical engineering MO/EN 486
Computer science hands-on experience CO/CS 112
Computer science instruction laboratory automation minicomputer NM/CS 539
Computer science microprocessor laboratory CA/CS 105
Computer science minicomputer laboratory NY/CS 554
Computer science modular introductory course MI/CS 409
Computer science structured FORTRAN NY/CS 605
Computer science: Computer applications of calculus MS/MA 468
Computer science: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Computer science: Computer hardware software laboratory for majors in 4-year program MN/CS 451
Computer science: Computer-based laboratory for introductory numerical analysis KS/CS 306
Computer science: Curriculum in interactive graphics favoring manufacturing applications NM/CS 542
Computer science: Development of a course in microprocessors VA/CS 914
Computer science: Digital electronics laboratory interfaced to an on-line computer NC/PH 637
Computer science: Educational uses of computer graphics CA/CS 102
Computer science: Environment simulator for systems software development TN/CS 831
Computer science: Hybrid computer for engineering education SD/EN 816
Computer science: Improvement of undergraduate course in computer and operating systems NJ/CS 532
Computer science: Integrated mini-micro learning center NE/CS 502
Computer science: Introduction of computer graphics into the engineering curriculum OH/CS 697
Computer science: Introductory computer programming with hand-held programmable calculators VT/CS 888

Computer science: Large screen interactive displays in teaching computer languages IN/CS 245
Computer science: Microcomputer laboratory for non-engineering students CA/CS 46
Computer science: Microcomputer laboratory for undergraduate computer scientists and engineers NH/CS 514
Computer science: Microcomputer software course for undergraduates NY/CS 552
Computer science: Microcomputer system design laboratory TX/CS 847
Computer science: Microcomputers for instruction in computer science hardware and software NV/CS 504
Computer science: Microprocessor laboratory paralleling a computer lecture course VA/CS 913
Computer science: Minicomputer and microcomputer laboratory for hardware and software instruction MA/CS 393
Computer science: Minicomputer based simulation programs for digital circuit design OK/CS 726
Computer science: Pedagogical impact of microprocessor based computing systems IL/CS 225
Computer science: Purchase of computer terminals for instructional purposes VA/CS 912
Computer science: Restructuring the undergraduate learning environment HI/CH 188
Computer science: Small computer for students and faculty in several departments CA/IN 67
Computer science: Software implementation of a microcomputer laboratory for computer education NV/CS 505
Computer science: Upgrading computer facilities enhancing student lab experience in programming AL/CS 12
Computer science: Using microcomputers to teach computer organization and programming TX/CS 864
Computer science, improved instruction MD/MA 357
Computer scientists engineers microcomputer laboratory NH/CS 514
Computer Sigma 7 CA/SZ 93
Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Computer simulated sampling game for study of quality control OK/EN 715
Computer simulations: Computer-assisted elementary mathematheticel models for now-math majors MT/MA 492
Computer simulations: PLATO lesson modules for biomedical instrumentation IL/EN 233
Computer simulation: Application of modern quantitative techniques to biological problems NY/BZ 632
Computer small students faculty CA/IN 67
Computer software microcomputers instruction NV/CS 504
Computer software: Computer integrated teaching modules for engineering design and manufacturing IN/EN 269
Computer subsystem DEC CT/CH 141
Computer subsystems DEC CT/CH 141
Computer system graphics Terak WI/EN 947
Computer system PDP 11/34 KS/BZ 301
Computer system polymorphic microprocessor MI/PS 414
Computer system Southwest Technical Products MO/EN 486
Computer teaching of problem solving in physics TN/PH 832
Computer terminal addressable DIGILOG WA/MA 916
Computer terminal BASIC graphic Tektronix NY/BZ 558
Computer terminal Carousel projector interface OH/PH 674
Computer terminal CRT Beehive IA/MA 274
Computer terminal CRT Perkin Elmer WA/BZ 920
Computer terminal DECWriter IN/ZZ 251 PA/EN 769
Computer terminal DecWriter Digital Equipment TN/PH 824
Computer terminal DECWriter Digital Equipment Corp. WA/BZ 920
Computer terminal Diablo microprocessor IA/MA 274
Computer terminal graphic Tektronix MA/CH 389
Computer terminal graphics Tektronix IL/IN 213
Computer terminal graphics 4006-1 Tektronix AL/MA 6
Computer terminal LA36 Digital Equipment APL/ASCII AL/MA 6
Computer terminal LA36 Digital Equipment Corp. AL/CS 12
Computer terminal Lear Siegler LA/BZ 337 MN/CH 449
Computer terminal NCR 265 portable APL/ASCII AL/MA 6
Computer terminal portable Execuport APL IA/MA 274
Computer terminal SOL-20 NY/PS 600
Computer Terminal SOROC Technology TN/MA 829
Computer terminal system WA/SZ 923
Computer terminals APL DECWriter IL/IN 213
Computer terminals CRT APL Teleray IL/IN 213
Computer terminals Datamedia Elite NJ/IN 525
Computer terminals DECWriter APL NJ/IN 525
Computer terminals for general physics laboratory LA/PH 343
Computer terminals instructional purposes VA/CS 912
Computer terminals interface equipment IL/IN 213
Computer terminals Lear Siegler KY/PS 321
Computer terminals undergraduate instruction NJ/IN 525
Computer testing: Computer assisted laboratory instruction MA/EN 392
Computer tutorial programs in physics KY/PH 314
Computer Wang OK/SZ 723
Computerized data acquisition for mechanical engineering undergraduates NY/EN 557
Computerized data analysis for taxonomy, plant identification and systematics WA/BZ 920
Computerized diagnostic testing: Computer aided instruction in mathematics and physics GA/IN 176
Computers experiment control MD/CH 364
Computers microprocessor simulated plants engineering design IN/EN 264
Computers, analog and digital: Process dynamics and control experiment development OH/EN 708
Computer-aided process design and simulation NY/EN 606
Computer-aided undergraduate chemical engineering laboratory MO/EN 488
Computer-assisted elementary mathemathetical models for now-math majors MT/MA 492
Computer-assisted homework data skills sociology VA/SZ 900
Computer-assisted undergraduate research seminar in natural science KS/ZZ 299
Computer-based laboratory for general statistics AL/MA 7
Computer-based laboratory for introductory numerical analysis KS/CS 306
Computer-based PLATO instruction in chemical engineering IL/EN 231
Computer-based testing in a modular remedial physics course NY/PH 550
Computer-generated audio-visual aids to presenting mathematical derivations in chemistry NJ/CH 520
Computer-generated exams: Competency-based self-paced algebra for students with weak mathematical backgrounds MI/MA 433
Computer-generated holograms: Optical information processing experiments for undergraduates TX/EN 859
Computer-interfaced data acquisition and processing chemical instrumentation CT/CH 141
Computer-microprocessors: Laboratory experiences in the exercise sciences AZ/BZ 32
Computer: Acquisition and manipulation of digital data in physical chemistry NV/CH 506
Computer: Advanced digital design laboratory for computer engineering students WI/EN 937
Computer: Application of modern quantitative techniques to biological problems NY/BZ 632
Computer: Application of quantitative notions to undergraduate instruction in biology OH/BZ 666
Computer: Applied optics for liberal arts students ID/PH 193
Computer: Audiovisual materials and data assessment for college chemistry laboratory MN/CH 442
Computer: Automated industrial facility simulator laboratory IN/EN 254
Computer: Basic chemical instrumentation with media assistance NY/CH 617
Computer: Centralized data acquisition system for undergraduate chemical engineering laboratory CO/EN 121
Computer: Computer aided instruction in mathematics and physics GA/IN 176
Computer: Computer assisted instruction in intermediate algebra for business students MA/MA 369
Computer: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Computer: Computer assisted instruction in undergraduate chemistry ND/CH 656
Computer: Computer assisted instruction modules in elementary algebra TN/MA 829
Computer: Computer based cognitive psychology laboratory PA/PS 784
Computer: Computer based simulated experiments and exercises for introductory physics FL/PH 155
Computer: Computer control of undergraduate science laboratory experiments MD/IN 361
Computer: Computer generated phase diagrams in thermodynamaics education IA/EN 279
Computer: Computer generated TV displays for low resolution class-room instruction WA/MA 916
Computer: Computer graphics and spectrum analyzer for four year college CA/ZZ 64
Computer: Computer graphics based simulations, experiments, and exercises for physics FL/PH 156
Computer: Computer graphics capability for computer assisted physics FL/PH 154
Computer: Computer graphics in mechanical design TX/EN 865
Computer: Computer integrated teaching modules for engineering design and manufacturing IN/EN 269
Computer: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Computer: Computerized data acquisition for mechanical engineering undergraduates NY/EN 557
Computer: Computer-aided process design and simulation NY/EN 606
Computer: Computer-assisted elementary mathemathetical models for now-math majors MT/MA 492
Computer: Computer-assisted undergraduate research seminar in natural science KS/ZZ 299
Computer: Consultant prepared data-based reading assignments for political science mini-courses OH/SZ 676
Computer: Curriculum in interactive graphics favoring manufacturing applications NM/CS 542

Computer: Data analysis exercises in anthropology MN/SZ 447
Computer: Development of a course in microprocessors VA/CS 914
Computer: Development of a course on recycling of materials OH/EN 668
Computer: Development of laboratories for production and safety engineering MO/ZZ 482
Computer: Development of modules on current mathematical applications MD/MA 358
Computer: Digital systems and microcomputer laboratory CO/EN 125
Computer: Economics lessons programmed on the CDC PLATO computer MN/SZ 443
Computer: Electromechanical energy conversion for the eighties NY/EN 591
Computer: Electronics course based on integrated circuits IA/PH 275
Computer: Engineering design learned using computers and microprocessor simulated plants IN/EN 264
Computer: Engineering physics equipment and interfacing with microcomputers OH/PH 678
Computer: Enrichment microseminars for introductory biology students VA/BZ 904
Computer: Environment simulator for systems software development TN/CS 831
Computer: Equipment for teaching of behavior circuits in time domain OR/EN 740
Computer: Equipment improvement for teaching microprocessor interfacing technology VT/EN 891
Computer: Equipment purchase for improvement of geophysics program OH/EZ 693
Computer: Equipping a social science laboratory KS/SZ 311
Computer: Experimental ecology laboratory for life sciences undergraduates NE/BZ 499
Computer: Gas turbine and digital data acquisition system OK/EN 730
Computer: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Computer: Health physics laboratory equipment purchase TN/PH 824
Computer: Improvement of undergraduate course in computer and operating systems NJ/CS 532
Computer: Improvements in a junior level computer science course sequence MI/CS 417
Computer: Improvements in a projects laboratory with a spray dryer UT/EN 880
Computer: Improving data skills of sociology students through computer-assisted homework VA/SZ 900
Computer: Individually designed educational activities for teaching introductory psychology NY/PS 553
Computer: Instructional equipment in engineering TX/EN 852
Computer: Instructional ethnographic laboratory CA/SZ 92
Computer: Instructional materials for scientific information retrieval CA/IN 101
Computer: Instrumental analysis incorporating mass spectroscopy and modular electronic instrumentation PA/CH 749
Computer: Instrumental and computational methods in biology WY/BZ 954
Computer: Instrumentation for upper division chemistry laboratories CA/CH 50
Computer: Instrumentation laboratory in two year college MA/PH 377
Computer: Integrated mini-micro learning center NE/CS 502
Computer: Integrated science laboratory module improvement TX/IN 839
Computer: Integrated two-course sequence in genetics LA/BZ 337
Computer: Integrating the computer into mathematics courses FL/MA 171
Computer: Integration of analytical, physical and inorganic chemistry laboratories NY/CH 574
Computer: Interactive computer game on principles of income distribution, economics TX/SZ 854
Computer: Interactive computer mapping of cultures OR/SZ 737
Computer: Interactive flow sheet information processing system NY/EN 581
Computer: Interactive study group instructional strategy for nutritional science TX/BZ 857
Computer: Interactive timesharing computing environment for forest science instruction WI/ZZ 941
Computer: Interdepartmental radiation laboratory NJ/IN 534
Computer: Interdisciplinary undergraduate modular electrical and physical measurements laboratory ME/PH 352
Computer: Introduction of computer graphics into the engineering curriculum OH/CS 697
Computer: Junior level microprocessor laboratory and course IN/EN 253
Computer: Laboratory Courses in Modern Analytical and Physical Chemistry PA/CH 782
Computer: Laboratory equipment teaching perception, operant conditioning, psychobiology, and statistics KY/PS 321
Computer: Locational analysis in undergraduate geography and urban planning IA/SZ 291
Computer: Mathematics and computing for undergraduate marine scientists NY/MA 572
Computer: Mathematics problems from regional industries for undergraduate majors OK/MA 713
Computer: Microcomputer laboratory for electrical engineering department NJ/EN 521
Computer: Microcomputer laboratory for non-engineering students CA/CS 46
Computer: Microcomputer laboratory for undergraduate computer scientists and engineers NH/CS 514
Computer: Microcomputer software course for undergraduates NY/CS 552
Computer: Microcomputer system design laboratory TX/CS 847
Computer: Microcomputers for CAI in introductory undergraduate electrical engineering MI/EN 426
Computer: Microprocessor based interdisciplinary laboratory CO/EN 111
Computer: Microprocessor design laboratory KY/EN 327
Computer: Microprocessor equipment for a two-year engineering technology program NJ/EN 517
Computer: Microprocessor equipment for laboratory use in electrical engineering PA/EN 757
Computer: Microprocessor laboratory IN/EN 252
Computer: Microprocessor laboratory for electrical engineering and computer science study CA/CS 105
Computer: Microprocessor laboratory paralleling a computer lecture course VA/CS 913
Computer: Microprocessor system design for undergraduate electrical engineers MO/EN 484
Computer: Microprocessors in modeling of electronic industrial controls and instrumentation OR/EN 732
Computer: Modeling problems from local industry OH/MA 682
Computer: Modern measurement techniques for undergraduate sensory psychology laboratory MA/PS 383
Computer: Modernization of experiments for physical chemistry NE/CH 501
Computer: Modular approach to introductory course in computer science MI/CS 409
Computer: Modular instruction in chemistry for underprepared learners IL/CH 227
Computer: Multiple instructional innovations in introductory economics IL/SZ 211
Computer: New transportation component for an interactive technology society course NJ/EN 524
Computer: Nogero subsistence and ecology OR/IN 738
Computer: Operations research for business students with algebra background MS/MA 463
Computer: Optical information processing experiments for undergraduates TX/EN 859
Computer: Pedagogical impact of microprocessor based computing systems IL/CS 225
Computer: Perceptual laboratory for technical students NY/PS 588
Computer: Personal minicomputers to aid undergraduate instruction in computer design AL/EN 4
Computer: Physical chemistry for life sciences AR/CH 39
Computer: Physical methods chemistry laboratory with improved data handling techniques VA/CH 908
Computer: Physics lab for biologists LA/PH 332
Computer: PLATO instruction in chemical instrumentation IL/CH 216
Computer: PLATO lesson modules for biomedical instrumentation IL/EN 233
Computer: PLATO modules for teaching political science research methods MN/SZ 444
Computer: Programming language translations using microprocessor emulated microcoding NY/EN 584
Computer: Purchase computing equipment for Wanakena campus NY/ZZ 611
Computer: Purchase of computer terminals for instructional purposes VA/CS 912
Computer: Real time computer aided laboratories in psychology and biology TX/IN 862
Computer: Real-time computing in cognitive and physiological psychology laboratories CT/PS 134
Computer: Seismic equipment for introductory exploration geophysics MI/EZ 432
Computer: Self paced minicourses in biology for the general student VA/BZ 896
Computer: Self paced video and computer assisted instruction in ethnography CA/SZ 93
Computer: Self-paced modules for anatomy and physiology courses IN/BZ 247
Computer: Self-paced proficiency modules for teaching statics and dynamics labs IL/EN 228
Computer: Simulation experiments for physics foundations course VT/PH 885
Computer: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Computer: Software for instruction in cognitive psychology laboratory CO/PS 127
Computer: Software implementation of a microcomputer laboratory for computer education NV/CS 505
Computer: Sophomore laboratory on programmed logic AZ/EN 31
Computer: Spectrophotometers for introductory organic chemistry laboratory WA/CH 919
Computer: Structure determination using spectra and on-line bibliographic retrieval systems IL/IN 204
Computer: Student laboratory in psychoacoustics MI/PS 414

Computer: Survey of applied mathematics for life scientists TX/MA 872
Computer: Team taught interdisciplinary statistics with multimedia labs CA/MA 49
Computer: Texts and labs for minicourses in electronics for scientists IA/PH 284
Computer: Theoretical physical chemistry laboratory CA/CH 94
Computer: Time-shared microprocessor laboratory for electrical and computer engineering majors TX/EN 876
Computer: Undergraduate instructional equipment for electrical engineering and computer science MO/EN 486
Computer: Undergraduate laboratory course in developmental psychology OH/PS 686
Computer: Undergraduate medical instrumentation laboratory in engineering and allied health CA/EN 57
Computer: Undergraduate psychology laboratory for experiments with human subjects TN/PS 834
Computer: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Computer: Undergraduate statistics laboratory IL/IN 213
Computer: Unified science course for minimally motivated students MA/IN 397
Computer: Upgrading lab facilities for neuroscience instruction OH/PS 688
Computer: Use of microprocessors in automatic control systems KS/EN 303 KS/EN 304
Computer: Video monitoring and recording equipment for human research sequence AL/PS 17
Computer: Video techniques for qualitative analysis for undergraduate social sciences IL/SZ 200
Computing equipment Wanakena campus NY/ZZ 611
Computing facilities liberal arts college CT/IN 135
Computing mathematics marine scientists NY/MA 572
Computing probability modules NH/MA 509
Computing psychology laboratories CT/PS 134
Computing system graphic Tektronix OH/PH 678
Computing system graphics Tektronix MI/MA 418
Computing system portable Wang KS/MA 296
Computing systems microprocessor pedagogical impact IL/CS 225
Computing timesharing forest science instruction WI/ZZ 941
Conceptual models cataloguing physics MA/PH 390
Concrete operational student: Dynamic LAP dissolved models for organic chemistry GA/CH 185
Concrete reasoning: Inquiry method and Piagetian approach to general college chemistry CO/CH 128
Condensed matter transport phenomena GA/PH 181
Condenser darkfield cardioid NY/BZ 609
Condensor steam Bell and Gossett OK/EN 717
Conditioning, operant laboratory equipment KY/PS 321
Conductivity meter Yellow Springs CA/BZ 68
Conductor balance force Ealing TX/PH 846
Conservation laws: Introductory physics with an engineering ambience for non-science majors NY/PH 560
Conservation of energy: Development of a course on recycling of materials OH/EN 668
Conservation of materials: Development of a course on recycling of materials OH/EN 668
Conservation: Economics of undergraduate laboratory instruction OH/CH 664
Consoles system McKee Pedersen Instruments PA/CH 782
Consolidated Electrodynamics Corp. 4-202-0001 100G accelerometers MI/PH 429
Consolidation apparatus Antour CO/EN 126
Constant-environment chambers for growing organisms and tissues for genetics MN/BZ 439
Constructed passive solar building CO/PH 123
Constructed solar concentrating collectors CO/PH 123
Constructed solar flatplate air collectors CO/PH 123
Constructed solar flatplate water collectors CO/PH 123
Construction engineering: Interactive computer graphics for simulating construction field operations CA/EN 84
Construction field operations simulating computer graphics CA/EN 84
Construction of inexpensive environmental chamber NY/BZ 571
Construction operations computer graphics simulation CA/EN 83
Construction technology: Audio tutorial self paced experiments open channel flow OR/EN 734
Construction technology: Fluid mechanics laboratory on open channel flow OR/EN 733
Consultant prepared data-based reading assignments for political science mini-courses OH/SZ 676
Contamination Control biohazard hood CCI 760 DE/IN 146
Continuing education: Addition of mass spectrometry to a spectrometric analysis course OR/CH 741
Continuing education: Basic chemical instrumentation with media assistance NY/CH 617
Continuing education: Basic principles applied radiation physics NY/PH 599
Continuing education: Biology and chemistry for science and non-science majors KS/BZ 295
Continuing education: Computer aided manufacturing for four year engineering college studies PA/EN 769
Continuing education: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Continuing education: Computer simulated sampling game for study of quality control OK/EN 715
Continuing education: Courseware for microprocessor and microcomputer instruction IN/ZZ 239
Continuing education: Educational system utilizing water management modules NY/EN 623
Continuing education: Electronic distance meter used to teach basic surveying SC/EN 806
Continuing education: Environmental engineering technology laboratory for four-year city college CO/EN 118
Continuing education: Improvement in public understanding of chemicals in food NY/CH 559
Continuing education: Improvement in statistics instruction using calculators NY/MA 621
Continuing education: Instructional scientific equipment in chemistry for minority students MD/CH 356
Continuing education: Interactive timesharing computing environment for forest science instruction WI/ZZ 941
Continuing education: Introduction to computer maintenance for electronic technicians AR/CS 35
Continuing education: Introduction to environmental concepts for engineers IN/EN 257
Continuing education: Laboratory course in modern practical optics UT/PH 881
Continuing education: Laboratory simulations in two-year, private liberal arts college OK/IN 722
Continuing education: Microcomputer software course for undergraduates NY/CS 552
Continuing education: Natural science designed for the disadvantaged learner CA/IN 85
Continuing education: Nuclear magnetic resonance spectrometer procurement for course improvement GA/CH 174
Continuing education: Nuclear magnetic resonance spectroscopy NM/CH 546
Continuing education: Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Continuing education: Science fiction films PA/PH 781
Continuing education: Self paced minicourses in biology for the general student VA/BZ 896
Continuing education: Sensory basis of art and human communication FL/IN 172
Continuing education: Studies on radiation, projection, and radioactivity for science majors OH/IN 689
Continuing education: Uv enzyme kinetics for medial technology students FL/ZZ 161
Control exciter B and K OH/EN 703
Control experiment development process dynamics OH/EN 708
Control laboratory process microcomputer system MS/EN 470
Control Logic M-series development systems IN/EN 266
Control simulator process Feedback Inc. OH/EN 669
Control system digital Feedback Inc. OH/EN 669
Control system photocell Lafayette Instrument Co. AZ/BZ 32
Control system pneumatic position Feedback Inc. OH/EN 669
Control system servo Feedback Inc. OH/EN 669
Control systems automatic microprocessors KS/EN 303 KS/EN 304
Control systems dynamics laboratory mechanical engineering students AZ/EN 25
Control systems laboratory for electrical, mechanical, chemical engineering seniors OH/EN 669
Control unit color Panasonic OH/BZ 700
Control unit disk cartridge drive DEC NJ/CS 532
Controlled fusion: Booklets of undergraduate physics course material from current research CA/PH 63
Controlled potential: New experiments in equilibrium and analysis MN/CH 437
Controlled temperatures: Constant-environment chambers for growing organisms and tissues for genetics MN/BZ 439
Controller digital temperature Perkin Elmer FL/ZZ 161
Controller disk Digital Equipment Corp. WV/CS 925
Controller disk drive Digital Equipment Corp. MD/IN 361
Controller editing Panasonic MI/CH 430 OH/BZ 700
Controller response box ICR Systems TN/PS 834
Controller Sony IL/SZ 200
Controller Video-Dex for video cassette CA/SZ 93
Controller Video-Dex for video cassette player CA/SZ 92
Controllers, use, microcomputer low cost CA/EN 97
Controls electronic industrial instrumentation microprocessors OR/EN 732
Controls gauge thermocouple Veeco Instruments GA/PH 181
Convection incubator gravity Blue M Electric Co. MI/BZ 420
Convection incubators gravity Blue M MA/BZ 386
Convection: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Converter A/D Digital Equipment OH/CH 683
Converter Digital Equipment analog digital NY/PH 595
Cooling module thermoelectric Herbach Rademan NM/BZ 540
Cooling tower Marley Co. OK/EN 717
Copper chromium x-ray tubes Phillips WI/IN 951
Coppus Engineering steam turbine RLG-12M OK/EN 717
Core memory system Fabri-Tek MA/CS 393
Core module approach: Laboratory revision with industrial emphasis MI/CH 422
Core sampler Wildco Co. KB NY/BZ 607

Corning Mega-Pure still 3510 DC/PS 147
Corning model 610A pH meter CA/BZ 69
Corning pH meter 130 OR/BZ 731 VA/EN 895
Corning pH meter 610A NY/BZ 607
Corning pH meters 2752, 2406, 2466, 2592 AL/CH 8
Corning solid state pH meters 475000 ID/CH 197
Cost based sampling: Computer simulated sampling game for study of quality control OK/EN 715
Coulbourn Instruments animal test chamber and control equipment TN/PS 834
Coulbourn Instruments bioamplifier coupler S75-01 OH/PS 670
Coulbourn Instruments EEG filters S75-14 through 18 KY/PS 312
Coulbourn Instruments high speed printing counter R22-16 OH/PS 670
Coulbourn Instruments modular psychophysical and psychophysiological equipment MI/PS 402
Coulbourn Instruments modular test cages E10-10 PA/PS 755
Coulbourn Instruments precision bipolar comparators S21-06 KY/PS 312
Coulbourn Instruments skin resistance module S71-20 OH/PS 670
Coulbourn Instruments solid state power supply S15-05 OH/PS 670
Coulbourn Instruments various logic audiometric modules AR/PS 38
Coulbourn Instruments voltage controlled oscillator S24-05 OH/PS 670
Coulbourn modular laboratory instrument biofeedback system TX/PS 879
Coulbourn modular laboratory instrument programming system TX/PS 879
Coulbourn modular small animal operant test environment TX/PS 879
Coulbourn operant programming apparatus TX/PS 843
Coulbourn shocker scramblers E13-16 PA/PS 760
Coulometry: New experiments in equilibrium and analysis MN/CH 437
Coulter counter MA/BZ 399
Counter Beckman liquid scintillation NY/BZ 549
Counter clock Gerbrands Co. KY/PS 321
Counter Coulter MA/BZ 399
Counter electronic Hewlett Packard NM/EN 541
Counter frequency Heath MI/PS 414
Counter frequency Tektronix TX/PH 842 VA/EN 909
Counter gamma Ames Co. NC/ZZ 643
Counter gamma radioimmunoassay NC/ZZ 643
Counter gas proportional Technical Associates MO/PH 479
Counter high speed printing Coulbourn Instruments OH/PS 670
Counter liquid scintillation allied equipment IA/BZ 276
Counter liquid scintillation Beckman IA/BZ 276 MA/BZ 399 MO/IN 480
Counter liquid scintillation Beckman Instruments MN/CH 445
Counter liquid scintillation Searle NJ/IN 534
Counter printer digital Grayson Stadler NC/PS 636
Counter pulse Tektronix FL/EN 168
Counter scintillation purchase MN/BZ 438
Counter scintillation Searle SD/BZ 818
Counter timer Hunter NC/PS 636
Counter timer Pasco PA/PH 785
Counter timer Tektronix OK/EN 721
Counter timers Ealing linear air track SD/PH 819
Counter well Nucleus Inc. MD/IN 360
Counter windowless flow Nuclear Instruments IN/PH 241
Counters electronic colony New Brunswick Scientific MA/BZ 386
Counter, timers, power supplies Pasco TX/PH 849
Coupler acoustic Anderson Jacobson MA/CH 389
Coupler acoustic Datec VA/CS 912
Coupler acoustic MI² NJ/IN 534
Coupler acoustic Omnitec MA/EN 392
Coupler bioamplifier Coulbourn Instruments OH/PS 670
Coupler dc-ac Narco MN/IN 434
Coupler dual directional Narda CA/EN 78
Coupler modems acoustic Comdata TN/SZ 828
Couplers channel amplifiers Narco MO/BZ 472
Course materials science improvement reading skills AZ/CH 26
Course soil geography AZ/EZ 27
Courseware for microprocessor and microcomputer instruction IN/ZZ 239
CO_2 incubator National NJ/BZ 519
CO_2 incubator Thelco MA/BZ 399
CPU PDP 11/34A Digital Equipment NY/EN 557
Cranial anatomy: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Creativity engineering course PA/EN 756
Creep frame load tester CA/EN 53
Creep testing: Mechanical properties of plastics laboratory CA/EN 53
Criterion Dynamax 8 telescope MS/IN 461
Criterion RV-6 telescope SD/PH 811
Critical point drying apparatus E-3000 CA/BZ 60
Critical point drying apparatus Samdri OH/BZ 699
Critical thinking: Inquiry role approach for teaching physical science NE/PH 498
Cromemco D+7A I/O multi-channel microprocessor analog interface NY/CH 583
Cromemco microprocessor microcomputer system Z-80 UT/PH 883
Cromemco TU-ART digital interface NV/CS 504
Cromemco Z-2 microcomputer system NV/CS 504
Cromemco 16K RAM NV/CS 504
Cross cultural comparisons: Interactive computer mapping of cultures OR/SZ 737
Cross cultural testing: Instructional ethnographic laboratory CA/SZ 92
CRT computer terminal Beehive IA/MA 274
CRT computer terminal Perkin Elmer WA/BZ 920
CRT computer terminals APL Teleray IL/IN 213
CRT display Micro Computing Machines CA/IN 67
CRT Infoton VA/CS 912
CRT Intelligent Systems OH/CH 673
Crt Lear Siegler VA/CS 912
CRT terminal Ann Arbor WA/SZ 923
CRT terminal Datamedia 1520 CA/CS 105
CRT terminal Infoton TX/EN 876
CRT terminal Lear Siegler Inc. TX/CS 864
CRT terminal Mits Inc. VT/EN 891
CRT terminal SOROC TN/SZ 828
CRT terminal Teleray MI/MA 433
CRT terminals Applied Digital Data Systems CA/IN 42 NY/MA 622
CRT terminals Digital Equipment Corp. CA/IN 42
CRT terminals Infoton IN/EN 266
CRT terminals Lear Siegler Co. WY/BZ 954
Crude fiber 6-unit condenser CA/ZZ 59
Cryostat Harris OH/PS 688
Cryostat preamplifier Canberra Ge(Li) detector GA/EN 179
Crystal optics materials: Modern optics and laser physics laboratory for four-year college WI/PH 931
Crystal structure: Development of solid state laboratory for undergraduate electrical engineers IN/IN 259
Crystallography: X-ray diffraction unit for geology, physics, and chemistry WI/IN 951
CTR-29 Realistic cassette recorders AL/EZ 1
Cuddy cabin boat FL/IN 153
Cultural ecology: Nogero subsistence and ecology OR/IN 738
Cultural geography: Student interpretation of landsat imagery NC/EZ 649
Culturally oriented material: Improvement of reading skills using science course materials AZ/CH 26
Culture apparatus roller LabLine OK/BZ 718
Culture automated apparatus NJ/ZZ 528
Culture change analysis: Data analysis exercises in anthropology MN/SZ 447
Culture facility tissue biological sciences OK/BZ 718
Culture tissue incubator carbon dioxide LabLine OK/BZ 718
Cultures interactive computer mapping OR/SZ 737
Cumulative recorder Gerbrands TN/PS 834
Cumulative recorders Gerbrands MS/PS 469
Current air transducer Foxboro Co. MO/EN 488
Curriculum development in plant, animal, and microbial physiology SD/BZ 813
Curriculum fundamental science MI/IN 405
Curriculum in interactive graphics favoring manufacturing applications NM/CS 542
Curriculum mining engineering mining safety operations AZ/EN 29
Curtin Matheson Sterilmatic electric autoclave 322-057 MI/BZ 424
Curve tracer Tektronix CA/EN 88
Cussons P9005 two shaft gas turbine OK/EN 730
Cutaneous sensitivity kit Marietta Co. NY/PS 588
Cuvette positioner Gilford MA/BZ 381
Cybex isokinetic strength testing device Lumex Inc. AZ/BZ 32
Cyborg biofeedback electroencephalograph BL541 LA/PS 339
Cyborg chart recorder Q910 LA/PS 339
Cyborg digital thermometer and thermal biofeedback J42 LA/PS 339
Cyborg electromyograph and processing system P633 and J33 LA/PS 339
Czerney turner scanning monochromator McKee Pedersen PA/CH 749
C. W. Radiation 4.5 watt HeNe laser WI/PH 939
C.A.A. pump turbine instructional set G/GH53 IA/EN 280
Dairy products: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Damon-IEC Division refrigerated centrifuge CRU-5000 CA/BZ 69
Dance: Sensory basis of art and human communication FL/IN 172
Darkfield condenser cardioid NY/BZ 609
Data acquisition and reduction: Equipment purchase for improvement of geophysics program OH/EZ 693
Data acquisition computer physics laboratories MN/PH 455
Data acquisition computerized mechanical engineering NY/EN 557
Data acquisition material testing Minicomputer GA/EN 180
Data acquisition package analog real time DEC MA/CS 393
Data acquisition programmable aerospace engineering laboratories TX/EN 873
Data acquisition system automatic Hewlett Packard TX/EN 873
Data acquisition system Digital Equipment Corp. MD/IN 361
Data acquisition system digital gas turbine OK/EN 730
Data acquisition system Interdata TX/EN 852
Data acquisition: Computer control of undergraduate science laboratory experiments MD/IN 361
Data acquisition: Engineering physics equipment and interfacing with microcomputers OH/PH 678

Data acquisition: Minicomputer equipment for computer science instruction and laboratory automation NM/CS 539
Data analysis exercises in anthropology MN/SZ 447
Data analysis packages: Adaptive evaluation structure for computer based instruction IA/SZ 292
Data analysis: Independent field marine laboratory for two-year college students FL/BZ 158
Data analysis: Senior laboratory in applied acoustics measurements with minicomputer assistance IL/PH 219
Data assessment audiovisual materials chemistry laboratory MN/CH 442
Data bases: Computer graphics for architectural technicians WI/ZZ 938
Data cartridge Scotch OH/SZ 676
Data collection and analysis in the physiology laboratory TX/BZ 855
Data collection computer chemistry laboratory OH/CH 683
Data Dimensions Diablo terminal and printer 1620-3 NY/BZ 562
Data General card reader assembly, FL/MA 171
Data General Nova 1220 FL/MA 171
Data general Nova 3/12 computer 32K core NY/ZZ 611
Data General Nova 3/12 minicomputer CO/EN 121
Data General teletype, FL/MA 171
Data handling physical chemistry laboratory VA/CH 908
Data handling: Project type experiments emphasizing molecular biochemistry for pre-professional students ND/CH 654
Data I/O PROM programmer model 9 NH/CS 514
Data Measuring System Lico MA/EZ 396
Data measuring system Phillips WI/IN 951
Data Media videoterminal CT/PS 134
Data Precision Inc. 1750 digital multimeter IL/PH 210
Data Printer 6644 line printer NY/CS 554
Data processing: Computer assisted mechanical systems analysis and synthesis laboratory NH/EN 513
Data processor Varian NY/IN 578
Data recorder digital NJ/EN 517
Data recorder physiotape cassette Narco BioSystems PA/BZ 788
Data skills sociology computer-assisted homework VA/SZ 900
Data Systems Design dual flexible disk drive MS/PS 469
Data systems Perkin Elmer LA/PH 343
Data terminal portable Texas Instruments AL/CS 12
Data validation semiconductor laboratory NY/EN 628
Datalight Corp. acousto-optic modulator RI/EN 791
Datamedia Elite 1520 terminal CA/SZ 93
Datamedia Elite 1520A computer terminals NJ/IN 525
Datamedia terminal CA/SZ 92
Datamedia 1520 CRT terminal CA/CS 105
Datametrics series 1000 mass flow instrument NH/EN 513
Datec acoustic coupler 30 VA/CS 912
David Kopf R-F lesion generator MO/BZ 472
David Kopf stereotaxic equipment TX/PS 843
Day Star hydrogen alpha filter CO/ZZ 120
Daytronic 9000 modular instrument system NH/EN 513
Dc amplifiers balanced Teca MA/ZZ 370
DC power supply Hewlett Packard NY/EN 628
DD11-C mounting frame NJ/CS 532
De Laval gyro tester KS/EN 300
Deaf students general biology DC/BZ 149
DeBye-Scherrer cameras Phillips WI/IN 951
DEC analog AAV-11, ADV-11 and digital DRV-11 computer subsystems CT/CH 141
DEC AR-11 real time analog data acquisition package MA/CS 393
DEC dual drive floppy disk system MA/CS 393
DEC graphics terminal PA/CH 783
DEC KE11-E extended instruction set NJ/CS 532
DEC KT11-D memory management option NJ/CS 532
DEC KW11-L line frequency real time clock NJ/CS 532
DEC laboratory minicomputer MINC-11 PA/CH 783
DEC PDP 11/34 computer CT/IN 135
DEC PDP-11/34 digital computer SD/EN 816
DEC PDP-11/34 minicomputer NH/EN 513
DEC real-time clock KWV-11 computer subsystem CT/CH 141
DEC RK05J-AA moving head DECpack drive NJ/CS 532
DEC RK11J-DE disk cartridge drive and control unit NJ/CS 532
DEC RT-11/Remote-11 software MA/CS 393
DEC RX11-BA dual drive floppy disk and control unit NJ/CS 532
DEC System 10 computer MA/MA 369
DEC TMB11-MA control and first TSD3 tape transport NJ/CS 532
Decade radioisotope scaler Sargent Welch SD/BZ 813
DECLAB microcomputer Digital Equipment Corp. TN/PS 834
DECLAB minicomputer Digital Equipment Corp. NM/CS 539
DECLAB 11/03 minicomputer with floppy disks, operating system and Fortran CT/CH 141
Decoupler attachment lock NMR AL/CH 18
Decoupler lock spin-spin Perkin Elmer MA/CH 373
Decoupler lock Varian OH/CH 705
DECpack drive moving head NJ/CS 532
DECWriter computer terminal PA/EN 769
DecWriter computer terminal Digital Equipment TN/PH 824
DECWriter computer terminal Digital Equipment Corp. WA/BZ 920
DECWriter computer terminals with APL IL/IN 213
DECWriter Digital Equipment Corp. MA/CH 389 MA/EN 392 VA/CS 912
DECWriter hard copy terminal Digital VA/EN 894
DecWriter hardcopy terminal LA36 TN/SZ 828
DECWriter Hightower Co. MS/MA 463
DECWriter II computer terminal LA36 IN/ZZ 251
DECWriter II computer terminals with APL option NJ/IN 525
DECWriter II printer terminal LA-36-DE IL/CH 227
DECWriter II printer terminals MA/MA 369
DECWriter LA36 terminal MI/CS 417
DECWriter teletype terminals Digital Equipment Corp. NY/MA 622
DECWriter terminal GA/IN 176
DECWriter terminal Digital Equipment NY/EN 557
DECWriter terminal Digital Equipment corp. KS/ZZ 299
DecWriter terminal Digital Equipment Corp. MI/PS 402
DECWriter terminals Digital Equipment Corp. MD/MA 357
Defibrillator Hewlett Packard IL/EN 234
Defibrillator tester Neuro Dyne CA/EN 57
Deflectors beam Byron Ellis Assoc. WI/PH 939
Demography, computer simulated populations KS/BZ 301
Demonstration and laboratory equipment for acoustics and electronics WI/PH 944
Demonstration lectures: Optics for pre-college science teachers and scientists NY/EN 627
Demonstrations and interdisciplinary laboratories in engineering science WY/EN 953
Demonstrations center Polaroid lecture system PA/PH 767
Demonstrations: Electrophysiological Experiments for Science Majors and Medical Paraprofessionals MA/BZ 368
Densitometer biomedical Gelman CA/BZ 69
Densitometer Gelman IN/ZZ 255 VA/CH 898
Densitometer motorized Quickscan MO/BZ 472
Density gradient centrifugation: Techniques in experimental cell biology for undergraduate biology majors AL/BZ 3
Density gradient mixer Buchler TX/BZ 856
Density gradient: Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation KY/BZ 315
Dental arcade of hominids and pongids: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Dental technologists: Mathematics for students in the allied health technologies VA/MA 910
Depth recorder salinity temperature Martek TX/EZ 845
Dermograph Autogenic Systems LA/PS 339
Design digital circuit minicomputer simulation programs OK/CS 726
Design engineering manufacturing teaching modules IN/EN 269
Design graphics engineering computer TX/EN 851
Design laboratory microprocessor KY/EN 327
Design mechanical computer graphics TX/EN 865 TX/EN 868
Design projects for freshman engineering KS/EN 310
Design projects physical science course WV/IN 927
Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Designer analog digital IA/PH 293
Designers mini-micro E and L Instrument NJ/EN 517
Designers mini-micro E and L Instruments NJ/EN 521
Design: Options in junior and senior year in professional courses NY/EN 633
Desk top kits for introductory chemistry: a Piagetian approach FL/CH 173
Detection and absorption of beta rays: Basic principles applied radiation physics NY/PH 599
Detection and absorption of gamma rays: Basic principles applied radiation physics NY/PH 599
Detection neutron source NY/PH 592
Detection radiation equipment physics IN/PH 241
Detector chromatograph Perkin Elmer IN/CH 263
Detector Ge(Li) Canberra cryostat preamplifier GA/EN 179
Detector high performance liquid chromatography Waters Associates MI/CH 412
Detector neutron Eberline OH/PH 684
Detector neutron Victoreen TN/PH 824
Detector scintillation Bicron IN/PH 241
Detector silicon surface barrier Ortec Inc. VT/PH 887
Detector uv absorbance Waters PA/CH 758
Detector uv Isco VA/CH 907
Detector UV Micromeritics Instrument Corp. TX/IN 839
Determinate structures: Self paced interactive computer graphics instruction in structural engineering VA/EN 894
Determination fluorometric chlorophyll marine science NY/ZZ 573
Developmeent infant behavior video-taped observation KS/PS 307
Development of a course in engineering creativity PA/EN 756
Development of a course in microprocessors VA/CS 914
Development of a course on recycling of materials OH/EN 668
Development of a stepping motor laboratory ME/EN 353
Development of an undergraduate biochemistry laboratory course KY/CH 318
Development of course materials: Electromechanical energy conversion for the eighties NY/EN 591
Development of experiments: Electromechanical energy conversion for the eighties NY/EN 591
Development of heat treatment and metallography laboratory SC/EN 807
Development of interdisciplinary social science research skills AL/IN 13

Development of laboratories for production and safety engineering MO/ZZ 482
Development of laboratory alternatives in introductory biology GA/BZ 184
Development of modules on current mathematical applications MD/MA 358
Development of solid state laboratory for undergraduate electrical engineers IN/IN 259
Development of undergraduate history of science course and laboratory MN/IN 452
Development systems M-series Control Logic IN/EN 266
Developmental biology laboratory CO/BZ 114
Developmental biology phase microscopy CT/BZ 144
Developmental biology: Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Developmental psychology laboratory course OH/PS 686
Developmental psychology video library MA/PS 388
Developmental psychology: Human research laboratory for junior level psychology majors AR/PS 38
Device design based performance: Semiconductor material and device project laboratory stressing data validation NY/EN 628
Dew Point microvoltmeter SD/BZ 813
Dewpoint hygrometer EG and G NM/BZ 540
Diablo hard copy terminal OH/EZ 693
Diablo Hytype I terminal NJ/CH 533
Diablo terminal printer Data Dimensions NY/BZ 562
Diablo 1620 microprocessor driven computer terminal IA/MA 274
Diagnostic techniques: Simultaneous recording of three physiological parameters in vertebrates NY/BZ 576
Diagnostic use of electromagnetic spectrum: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Diagnostic use of electromagnetic spectrum: Remote sensing for forestry students IL/EZ 220
Diagrams phase thermodynamaics education IA/EN 279
Dial Atom atomic absorption spectrophotometer Jarrell Ash NY/CH 630
Dialdex refractometer Rayner TX/CH 840
Dialux polarizing microscope Leitz PA/EN 776
Dial-Atom III spectrophotometer Jarrell Ash NY/CH 568
Dial-O-Gram balance Ohaus OK/CH 710
Diano Co. Miniahot II x-ray unit TN/PH 824
Diano x-ray diffractometer NY/EZ 561
Diaphragm pump air hydraulics NM/BZ 540
Dictaphone Edisette Lanier IA/PS 289
Dietetics laboratory nutrition, food science, IN/ZZ 255
Dietetics: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Dietetics: Scientific equipment for foods and nutrition laboratory instruction CA/ZZ 59
Dietzgen drafting table 311TA9-48 CA/SZ 104
Dietzgen mirror stereoscope model 7100-1 CA/EZ 87
Dietzgen stereometers model 7100-4 CA/EZ 87
Dietzgen 3 power binocular eyepieces model 7100-2 CA/EZ 87
Dietzgen 6 power binocular eyepiece tube model 7100-3A CA/EZ 87
Differential amplifiers Tektronix MI/PH 429
Differential equations: Mathematics and computing for undergraduate marine scientists NY/MA 572
Differential pulse polarography: Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
Differential refractometer Waters Associates MN/CH 450
Differential respirometer Gilson AR/IN 34 ME/BZ 348
Diffraction optics system Pasco Scientific IL/PH 207
Diffraction powder X-ray Phillips Norelco IL/EZ 236
Diffraction system Phillips WI/IN 951
Diffraction Vertical Goniometer Philips MA/EZ 396
Diffraction X-ray geology MA/EZ 396
Diffraction X-ray powder IL/EZ 236
Diffractometer goniometer Phillips WI/IN 951
Diffractometer x-ray Diano NY/EZ 561
Diffractometer x-ray geology corriculum NY/EZ 561
Diffractometry: X-ray diffraction in geology MA/EZ 396
Diffusion apparatus immune NJ/ZZ 528
Diffusion cell Engineering Lab Design NY/EN 603
Diffusion of technology: Data analysis exercises in anthropology MN/SZ 447
Diffusion resistance meter Lambda LI-65 CT/BZ 138
Diffusive resistance meter Lambda SD/BZ 813
Digestion unit Kjeldahl Fisher NY/BZ 566
Digi Master reactor experiments IN/PH 241
Digicom acoustic couplers AC312 CA/IN 42
DIGILOG addressable computer terminal WA/MA 916
Digital analog converter Digital Equipment NY/PH 595
Digital analog designer E and L Instruments GA/PH 175
Digital analog hybrid computer: Computer interface to upgrade undergraduate chemistry and physics laboratories NY/PH 595
Digital analog input output devices Interdata GA/EN 180
Digital breadboard system E and L Instruments MO/EN 486
Digital breadboard systems E and L Co. PA/CH 782
Digital cassette recorder Bison OH/EZ 680
Digital cassette tape recorder TX/CS 864
Digital chloridometer Buchler ME/BZ 348
Digital circuit design minicomputer simulation programs OK/CS 726
Digital computer controls: Use of microprocessors in automatic control systems KS/EN 303 KS/EN 304
Digital computer DEC PDP-11/34 SD/EN 816
Digital computer design: Undergraduate instructional equipment for electrical engineering and computer science MO/EN 486
Digital computers: Process dynamics and control experiment development OH/EN 708
Digital control system Feedback Inc. OH/EN 669
Digital data acquisition system gas turbine OK/EN 730
Digital data physical chemistry NV/CH 506
Digital data recorder NJ/EN 517
Digital DECWriter II hard copy terminal VA/EN 894
Digital design laboratory computer engineering WI/EN 937
Digital design laboratory: Undergraduate instructional equipment for electrical engineering and computer science MO/EN 486
Digital designer analog IA/PH 293
Digital design: Microcomputer system design laboratory TX/CS 847
Digital electronics instruction course E and L Instruments Inc. OH/PH 684
Digital electronics laboratory interfaced to an on-line computer NC/PH 637
Digital electronics: Elementary chemical instrumentation for computer-interfaced data acquisition and processing CT/CH 141
Digital electronics: Improvement of laboratory experiences in electronics and electromechanical technology OK/EN 721
Digital electronics: Instrumental analysis incorporating mass spectroscopy and modular electronic instrumentation PA/CH 749
Digital electronics: Interactive microprocessor simulation of mass spectrometers NY/CH 583
Digital electronics: Physical methods chemistry laboratory with improved data handling techniques VA/CH 908
Digital Equipment ADK11-KT A/D converter OH/CH 683
Digital Equipment analog to digital converter NY/PH 595
Digital Equipment APL/ASCII computer terminal LA36 AL/MA 6
Digital Equipment AR11 analog real-time subsystem NY/EN 557
Digital Equipment Corp. CRT terminals VT52 CA/IN 42
Digital Equipment Corp. data acquisition system MD/IN 361
Digital Equipment Corp. DECLAB microcomputer system TN/PS 834
Digital Equipment Corp. DECLAB minicomputer 11/34 NM/CS 539
Digital Equipment Corp. DECWriter II computer terminal WA/BZ 920
Digital Equipment Corp. DECWriter II hard-copy computer terminal CO/CS 112
Digital Equipment Corp. DECWriter II LA 36-3A terminals MD/MA 357
Digital Equipment Corp. DECWriter II LA36 MA/CH 389
Digital Equipment Corp. DECWriter II teletype terminals NY/MA 622
Digital Equipment Corp. DECWriter LA36 VA/CS 912
Digital Equipment corp. DECWriter terminal LA36 KS/ZZ 299
Digital Equipment Corp. disk drive units RL01 WI/ZZ 941
Digital Equipment Corp. dual floppy disk drive WI/ZZ 941
Digital Equipment Corp. graphics display VT11 NM/CS 539
Digital Equipment Corp. graphics terminal GT42 WI/ZZ 938
Digital Equipment Corp. KEH-E extended instruction set WV/CS 925
Digital Equipment Corp. KT11-D memory management unit WV/CS 925
Digital Equipment Corp. KW11-L line clock WV/CS 925
Digital Equipment Corp. LA36 computer terminal AL/CS 12
Digital Equipment Corp. LA36 console terminal CA/EN 84
Digital Equipment Corp. LA36 DecWriter II terminal MI/PS 402
Digital Equipment Corp. LA36 printers NY/MA 622
Digital Equipment Corp. LA-36 DECWriter II MA/EN 392
Digital Equipment Corp. LSI 11/03 microcomputer MA/PH 377
Digital Equipment Corp. MF11-WP 32K words of memory WV/CS 925
Digital Equipment Corp. microcomputer board LSI 11/03 TN/PS 834
Digital Equipment Corp. microcomputer LSI 11/03 MS/EN 470
Digital Equipment Corp. microcomputer LSI-11 NM/CS 539
Digital Equipment Corp. microcomputer PDP 11/03 NC/EN 645
Digital Equipment Corp. microcomputer PDP-11/03 TN/PS 834
Digital Equipment Corp. minicomputer PDP/8 OK/IN 722
Digital Equipment Corp. MM11-WP 32K words of memory WV/CS 925
Digital Equipment Corp. M9301-YF bootstrap loader WV/CS 925
Digital Equipment Corp. PDP 11/03 microcomputer MA/EN 392
Digital Equipment Corp. PDP 11/34 computer MA/EN 392 OH/BZ 666
Digital Equipment Corp. PDP 11/34 minicomputer 64K word CA/EN 84
Digital Equipment Corp. PDP 11/34A computer WI/ZZ 941
Digital Equipment Corp. PDP-11/34 minicomputer system NY/MA 622
Digital Equipment Corp. PDP-11/40 minicomputer 11/40-BR WV/CS 925
Digital Equipment Corp. PDP-8/A 32K minicomputer MI/PS 402
Digital Equipment Corp. QR430-AD RSL5/E operating system WV/CS 925
Digital Equipment Corp. RK05 disk drive and controller MD/IN 361

Digital Equipment Corp. RK05 disk drives CA/EN 84
Digital Equipment Corp. RPR11-AA 20 megabit and disk controller WV/CS 925
Digital Equipment Corp. RX8-BA dual drive floppy disc MI/PS 402
Digital Equipment Corp. TMB11-MA 800 BPI magnetic tape subsystem WV/CS 925
Digital Equipment Corp. TS03 9 track magnetic tape CA/EN 84
Digital Equipment Corp. video terminal VT-52 PA/PS 784
Digital Equipment Corp. VT11 graphics subsystem CA/EN 84
Digital Equipment Corp. VT55 graphics terminal MA/PH 377
Digital Equipment Co. digital to analog converter CA/CH 58
Digital Equipment DECLAB 11/34 system 1 CT/PS 134
Digital Equipment DecWriter II computer terminal TN/PH 824
Digital Equipment DR11-KT digital I/O OH/CH 683
Digital Equipment dual floppy disk drive NY/EN 557
Digital Equipment LA36 DEC terminal CT/PS 134
Digital Equipment LA36 DECWriter terminal NY/EN 557
Digital Equipment LSI-11 computer system and peripherals MN/PH 455
Digital Equipment PDP 11/34A CPU NY/EN 557
Digital Equipment PDP8 computer MS/PS 469
Digital Equipment PDP-11/03 microcomputer NY/PH 595
Digital Equipment RT-11 Fortran laboratory applications software OH/CH 683
Digital Equipment VT55-FA graphics terminal OH/CH 683
Digital Equipment 11F34 minicomputer system OH/CH 683
Digital Group Co. Z-80 microprocessor systems KS/EN 303
Digital Group Co. Z-80 microprocessor systems KS/EN 304
Digital image processing: Optical information processing experiments for undergraduates TX/EN 859
Digital interface Cromemco NV/CS 504
Digital I/O Digital Equipment OH/CH 683
Digital laboratory equipment: Undergraduate instructional equipment for electrical engineering and computer science MO/EN 486
Digital logic: Freshman non-calculus introductory self-paced electronics laboratory AR/PH 36
Digital logic: Texts and labs for minicourses in electronics for scientists IA/PH 284
Digital microvolt multimeters Keithley NY/EN 575
Digital multimeter Data Precision Inc. IL/PH 210
Digital multimeter Dynascan Corp. KS/EN 303 KS/EN 304
Digital multimeter Hewlett Packard NY/EN 603 NY/EN 628
Digital multimeter Keithley NY/EN 628
Digital multimeter Tektronix OK/EN 721 TX/PH 842
Digital multimeter Tektronix DM 501 FL/EN 168
Digital multimeter Tektronix DM 502 FL/EN 168
Digital oscilloscope Narco Biosystems NY/BZ 632
Digital Pipetman pipet Rainin MD/IN 360
Digital plotter Interactive ND/CH 656
Digital plotter interactive Tektronix OR/SZ 737
Digital plotter Tektronix CO/EN 121 MI/MA 418 NH/EN 513
Digital plotter Zeta Corp. GA/EN 180
Digital printer counter Grayson Stadler NC/PS 636
Digital remote control Sony video tape recorder AL/PS 17
Digital signal processing: Minicomputer and microcomputer laboratory for hardware and software instruction MA/CS 393
Digital storage oscilloscope Narco MO/BZ 472
Digital system with LSI's: Time-shared microprocessor laboratory for electrical and computer engineering majors TX/EN 876
Digital systems and microcomputer laboratory CO/EN 125
Digital systems: Microprocessor equipment for laboratory use in electrical engineering PA/EN 757
Digital thermometer thermal biofeedback Cyborg LA/PS 339
Digital to analog converter Digital Equipment CA/CH 58
Digital voltmeter Hewlett Packard MI/IN 423
Digital wattmeter EIL M6216 MA/EN 398
Digital: Computer hardware and microcomputer systems laboratory IN/EN 266
Digitizable planimeter K and E IL/EZ 220 IL/EZ 221
Digitizer Bit Pad Summagraphics TX/EN 851
Digitizer pen Graf IA/SZ 290
Digi-Bridge RLC impedance bridge General Radio HI/EZ 189
Digi-Log Telecomputer II terminal WI/ZZ 943
Digi-Log 5in. portable video monitor with case WI/ZZ 943
Dioxide sulfur monitor Monitor Labs IN/EN 267
Direct probe accessories for EM-600 KY/CH 316
Direct reading spectroscope Vreeland Spectrex Co. AZ/EZ 22
Disa hot wire anemometer 55M01 NY/EN 603
Disadvantaged learner natural science CA/IN 85
Disc electrophoresis apparatus Buchler Polyanalyst OR/BZ 731
Disc floppy Digital Equipment Corp. MI/PS 402
Disc gel electrophoresis apparatus Buchler IN/BZ 243
Disc gel electrophoresis Buchler Polyanalyst ND/CH 654
Disc gel electrophoresis power supply LKB ID/CH 197
Discrete approach to calculus: Computer oriented calculus using finite differences and discrete models NY/MA 622
Discrete mathematical models: Computer modules for freshmen biology labs NY/BZ 558
Disk cartridge drive control unit DEC NJ/CS 532
Disk cartridge 902-24 TX/IN 862
Disk controller Digital Equipment Corp. WV/CS 925
Disk drive controller Digital Equipment Corp. MD/IN 361
Disk drive Digital Equipment Corp. WI/ZZ 941
Disk drive floppy Digital Equipment NY/EN 557
Disk drive floppy Motorola Semiconductor Products MN/CS 451
Disk drives Digital Equipment Corp. CA/EN 84
Disk floppy drive Digital Equipment Corp. WI/ZZ 941
Disk floppy subsystem NY/ZZ 611
Disk floppy Sykes IN/EN 266
Disk Interdata GA/EN 180
Disk micro system North Star PA/CH 787
Disk storage floppy North Star WI/IN 946
Disk subsystem 10 megabyte NY/ZZ 611
Disk system floppy DEC dual drive MA/CS 393
Disk unit floppy Sykes NY/PS 600
Diskette Micro Computing Machines CA/IN 67
Dismembrator Artex NC/BZ 639
Dispensor Oxford CA/BZ 69
Display spectrographic speech spectrophonics AZ/ZZ 23
Display terminal Lear Seigler OR/PH 742
Dissecting kit Stoelting Co. OK/PS 728
Dissolve control Kodak Carousel GA/CH 185
Dissolve system Visual Horizons NY/CH 590
Dissolved oxygen meter Yellow Springs OH/BZ 696
Dissolved oxygen meter Yellow Springs Instruments RI/BZ 794
Dissolved oxygen meter YSI FL/BZ 158
Distance measurements: Electronic distance meter used to teach basic surveying SC/EN 806
Distance meter electronic K and E SC/EN 806
Distance meter electronic surveying SC/EN 806
Distance relaying: Laboratory simulation of electric power transmission systems TN/EN 822
Distillation column control: Computer-aided undergraduate chemical engineering laboratory MO/EN 488
Distribution system air Scott Armfield IA/EN 280
Disturbed children behavior analysis modification NY/PS 600
Diving training: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Dixie retort and sealer RDSW-3 and SD-H-23 KS/EN 300
DL11-WB EIA asynchronous line real time clock NJ/CS 532
DNA melting and reassociation: Slide-tape assisted self-paced biochemistry laboratory for undergraduate women MA/BZ 381
DNA: Techniques in experimental cell biology for undergraduate biology majors AL/BZ 3
Dodge 15 seat Maxivan IL/BZ 209
Dome planetarium projector Apollo Viewlex IA/ZZ 281
Dome screen hemispherical Highland Products Corp. AR/ZZ 41
Domestic livestock: Physiology laboratory for students in animal sciences WA/BZ 922
Doppler Monitor ultrasonic Metrix Inc. Echo Flow MI/PH 416
Doppler ultrasonic flowmeter: Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Dosimetry thermoluminescence NY/PH 592
Dosimetry thermoluminescent environmental radiation IN/PH 242
Drafting table Dietzgen CA/SZ 104
Drafting: Computer graphics for architectural technicians WI/ZZ 938
Drafting: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Drawings: Computer graphics for architectural technicians WI/ZZ 938
Dredge biological Classmate FL/BZ 158
Dredge field kit Wildco Ekman CA/BZ 68
Dredge Ponar grab Wildco Co. NY/BZ 607
Dri-Bath Thermolyne incubators small specimen MA/BZ 386
Drug abuse detection: Educating pharmacy students about drug analysis in biological fluids VA/CH 907
Drug analysis biological fluids pharmacy students VA/CH 907
Drug analysis courses instrumentation KS/CH 309
Drug analyzer Toxichron IN/ZZ 255
Drum plotter Calcomp MS/EN 464
Dryer Aeromatic Inc. DE/IN 146
Dryer freeze Labconco PA/BZ 788
Dryer freeze Vertis KS/EN 300
Dryer freeze Virtus Engineering KY/PS 312
Dryer laboratory Spray-Aire Bowens Engineering Co. UT/EN 880
Dryer spray projects laboratory UT/EN 880
Drying apparatus critical point CA/BZ 60
Drying apparatus critical point Samdri OH/BZ 699
Drying oven Blue-M DC/PS 147
Dual trace oscilloscope Gould Inc. IL/PH 210
Duct noise: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Dumb terminal Lear Siegler TX/PS 860
Duplicator cassette Recordex Superpro TX/IN 841
DuPont Sorvall glass knife breaker VA/BZ 905
DuPont Sorvall microtome JB-4 VA/BZ 905
Dupont Sorvall preparative centrifuge RC5-B VT/CH 884
DuPont Sorvall RC-5B refrigerated centrifuge AL/BZ 3
DuPont SV-80 vertical rotor for RC-5B Sorvall centrifuge AL/BZ 3
Dye laser system: Modern optics and laser physics laboratory for four-year college WI/PH 931
Dye studies: Marine science fluorometric determination of chlorophyll and water movement NY/ZZ 573
Dynacom walkie-talkies Lafayette OH/EZ 680
Dynamax telescope Criterion MS/IN 461

Dynamic LAP dissolved models for organic chemistry GA/CH 185
Dynamic RAM module Motorola Semiconductor Products MN/CS 451
Dynamic test system for engineering materials and soils CO/EN 126
Dynamic triaxial testing: Dynamic test system for engineering materials and soils CO/EN 126
Dynamics and control systems laboratory for mechanical engineering students AZ/EN 25
Dynamics labs proficiency modules IL/EN 228
Dynamics process control experiment development OH/EN 708
Dynamics: Demonstrations and interdisciplinary laboratories in engineering science WY/EN 953
Dynamics: Mechanical engineering undergraduate laboratory NM/EN 541
Dynamometer isokinetic Lumex Cybex II MA/ZZ 370
Dynascan Corp. digital multimeter 283 KS/EN 303 KS/EN 304
Dynatch TCHM-DV thermal measurement system KS/EN 300
Dynatrac analyzer Ithaco IN/IN 259
Dynograph Beckman Instruments AR/PS 38
D56 Kodak Carousel dissolve control model 2 GA/CH 185
D. Kopf hydraulic microdrive OH/PS 688
D.c. servo system Feedback Systems Inc. AZ/EN 25
E and L ADAM circuit design and test system LA/CH 335
E and L Breadbox IV breadboards MA/CS 393
E and L Co. digital breadboard systems PA/CH 782
E and L Instrument mini-micro designers NJ/EN 517
E and L Instruments analog digital designer 8000 GA/PH 175
E and L Instruments breadboards IV K KS/EN 303 KS/EN 304
E and L Instruments digital breadboard system IS-3A MO/EN 486
E and L Instruments Inc. digital electronics instruction course OH/PH 684
E and L Instruments Inc. microcomputer interfacing boards MMD-1/M1 VT/EN 891
E and L Instruments Inc. PROM programmer MMD-PP VT/EN 891
E and L Instruments mini-micro designers MMD-1 NJ/EN 521
E and L microprocessor MMD-1 PA/CH 749
EAI 2000 analog computer SD/EN 816
Ealing air table 34-0000 WY/EN 953
Ealing Corp. optical bench components RI/EN 791
Ealing demonstration airtable 34-0034 SD/PH 819
Ealing force on a conductor balance 30-6308 TX/PH 846
Ealing gaussmeter CA/PH 79
Ealing linear air track with counter timers SD/PH 819
Ealing magnet power supply OH/PH 691
Ealing Mossbauer system OH/PH 684
Ealing Shive wave machine 16-1117 SD/PH 819
Ealing student air gyrascope 1332580 TX/PH 846
Ealing student air table 3400670 TX/PH 846
Ealing student 4inch magnet OH/PH 691
Ealing XYZ micromanipulators with probeholders NY/EN 575
Ealing 32-2834 mass spectrometer IL/PH 207
Ealing-Daybell Stern-Gerlach apparatus OH/PH 691
Ealins stress optical analyzer 13-3009 UT/PH 881
Earth materials spectrochemical analysis MN/EZ 458
Earth resistivity meter Bison HI/EZ 189
Earth sciences: Audio tutorial, self instructional systems soil plant science teaching AL/EZ 1
Earth sciences: Audio visual color television programs in optical mineralogy NY/EZ 551
Earth sciences: College geology program for computer literacy MA/EZ 395
Earth sciences: Computer assisted introduction to thematic maps for beginning students TN/EZ 830
Earth sciences: Environmental project oriented field and laboratory science classes CA/EZ 52
Earth sciences: Equipment purchase for improvement of geophysics program OH/EZ 693
Earth sciences: Geology laboratory improvement OK/EZ 724
Earth sciences: Geology thin-sectioning laboratory equipment for four-year college MA/EZ 382
Earth sciences: Geophysical education using a signal stacking seismic system OH/EZ 680
Earth sciences: Improvement of undergraduate studies in petrography NY/EZ 569
Earth sciences: Interdisciplinary program in powder X-ray diffraction IL/EZ 236
Earth sciences: Interpretation of satellite imagery by computer quantitative methods NY/EZ 614
Earth sciences: Introductory physical geology for law enforcement studies students OH/EZ 679
Earth sciences: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Earth sciences: Investigative introductory geology course in the field in Montana IN/EZ 246
Earth sciences: Matching funds for purchase of a gravity meter OH/EZ 706
Earth sciences: Optical equipment for transfer of map data MA/EZ 367
Earth sciences: Remote sensing for forestry students IL/EZ 220
Earth sciences: Seismic equipment for introductory exploration geophysics MI/EZ 432
Earth sciences: Spectrochemical analysis of earth materials for undergraduates MN/EZ 458
Earth sciences: Student interpretation of landsat imagery NC/EZ 649
Earth sciences: Suite approach in teaching introductory sedimentology ND/EZ 659
Earth sciences: Undergraduate instruction in photogeology CA/EZ 87
Earth sciences: Undergraduate oceanographic curriculum rice university TX/EZ 845
Earth sciences: Worden gravity meter purchase for geology and geophysics KY/EZ 330
Earth sciences: X-ray diffraction in geology MA/EZ 396
Earth sciences: X-ray diffractometer for undergraduate geology corriculum NY/EZ 561
Earth science: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Earth science: New soil geography course AZ/EZ 27
Earth science: Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Earth science: Revision of instruction and instrumentation in geophysics CA/EZ 51
Earth science: Scientific exploration equipment for undergraduate geophysics instruction HI/EZ 189
Earth science: Spectroscopic laboratory in introductory mineralogy AZ/EZ 22
Eberline Instrument Co. TLD reader TLR-5 MO/PH 479
Eberline Miniscalar TN/PH 824
Eberline neutron detector OH/PH 684
Ebert monochromator Jarrel Ash KS/PH 298
ECG simulator NY/PH 598
ECG simulator Parke Davis CA/EN 57
Echo apparatus ultrasonic Echo Trace Metrix Inc. MI/PH 416
Echo Flow Monitor ultrasonic doppler Metrix Inc. MI/PH 416
Echo Trace ultrasonic echo apparatus Metrix Inc. MI/PH 416
Ecological models: Computer assisted course in biomathematics MI/MA 418
Ecology aquatic laboratories NY/BZ 607
Ecology aquatic liberal arts VA/IN 901
Ecology experimental life sciences NE/BZ 499
Ecology laboratory life sciences NE/BZ 499
Ecology physiological environmental health students ME/BZ 348
Ecology study system Sargent Welch NC/ZZ 651
Ecology subsistence nogero OR/IN 738
Ecology: Aquatic ecology for liberal arts undergraduate women VA/IN 901
Ecology: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Ecology: Environmental engineering laboratory for civil engineering students VA/EN 895
Ecology: Measurements in environmental science TX/IN 848
Ecology: Modular materials that assist biology students in investigation IL/BZ 235
Ecology: Modules in aquatic microbiology for microbiology, non-microbiology courses NY/BZ 619
Ecology: Teaching about algae with an audio-tutorial module ND/BZ 660
Ecology: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Ecology, computer simulated populations KS/BZ 301
Ecology, estuarine limnology comparative physiology lab curricula NY/BZ 563
Ecology, modules general zoology IL/BZ 222
Economic anthropology: Economic history from periods of structural economic change VA/SZ 892
Economic geology: Undergraduate instruction in photogeology CA/EZ 87
Economic history from periods of structural economic change VA/SZ 892
Economics income distribution, computer game TX/SZ 854
Economics instructional innovations IL/SZ 211
Economics lessons computer assisted IN/SZ 260
Economics lessons programmed on the CDC PLATO computer MN/SZ 443
Economics of undergraduate laboratory instruction OH/CH 664
Economics, chemistry, computer assisted instruction CA/IN 42
Economics, improved instruction computers MD/MA 357
Economy Terminal ET1 VA/CS 914
Ecosystem productivity: Experimental ecology laboratory for life sciences undergraduates NE/BZ 499
Ecosystem structure and diversity: Experimental ecology laboratory for life sciences undergraduates NE/BZ 499
Edisette dictaphone Lanier IA/PS 289
Editing controller Panasonic MI/CH 430 OH/BZ 700
Editing controller, Panasonic NV-950 MA/PS 388
Editing unit, Panasonic video cassette recorder MA/PS 388
EDM instrument Autoranger Keuffel and Esser LA/EN 338
EDO Western 606 sidescan sonar system FL/EN 160
Educating pharmacy students about drug analysis in biological fluids VA/CH 907
Educational system utilizing water management modules NY/EN 623
Educational uses of computer graphics CA/CS 102
Education: Human biology for human services personnel NH/BZ 510
EEG filters Coulbourn Instruments KY/PS 312

EEG, operant conditioning, and histofluorescence equipment for undergraduate psychology KY/PS 312
EG and G dewpoint hygrometer NM/BZ 540
Eggs: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
EIA communications interface module Texas Instruments TX/IN 862
Eidochronic analysis: Self paced video and computer assisted instruction in ethnography CA/SZ 93
EIL digital wattmeter MA/EN 398
Ektagraph Kodak slide projector, AZ/BZ 30
Ektagraphic Audioviewer Kodak AZ/BZ 30 NJ/CH 516
Ektagraphic audioviewer Kodak OH/CH 661
Ektagraphic Kodak slide projector SC/BZ 809
Ektagraphic slide projector Kodak LA/PS 339
Ektagraphic Visual Maker Kodak NY/PS 553
Elastic beam apparatus Tecquipment Incorp. RI/EN 793
Electric autoclave Barnstead OK/BZ 718
Electric autoclave Sterilmatic Curtin Matheson MI/BZ 424
Electric machinery equipment Hampden Engineering Corp. KY/EN 322
Electric machinery laboratory for four-year electrical engineering technology program KY/EN 322
Electric machinery: Power systems laboratory to simulate systems using miniaturized equipment NC/EN 644
Electric motors ME/EN 353
Electric power engineering laboratory MO/EN 483
Electric power option: Electric machinery laboratory for four-year electrical engineering technology program KY/EN 322
Electric power transmission laboratory simulation TN/EN 822
Electric power transmission system Lab-Volt NC/EN 645
Electric steamboiler Precision Electric Inc. OK/EN 729
Electric still Barnstead VA/EN 895
Electrical computer engineering microprocessor laboratory TX/EN 876
Electrical current: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Electrical engineering computer science MO/EN 486
Electrical engineering experiments: Solar cell and Schottky diode fabrication, thermoelectricity lab experiments NY/EN 575
Electrical engineering machinery laboratory KY/EN 322
Electrical engineering materials for sophomores ME/EN 354
Electrical engineering microcomputer laboratory NJ/EN 521
Electrical engineering microcomputers CAI MI/EN 426
Electrical engineering microprocessor laboratory CA/CS 105 PA/EN 757
Electrical engineering: Development of a stepping motor laboratory ME/EN 353
Electrical engineering: Hybrid computer for engineering education SD/EN 816
Electrical engineering: Improvement of instruction through the semi-paced teaching method KY/EN 328
Electrical engineering: Laser applications and modern optics RI/EN 791
Electrical engineering: Microcomputer system design laboratory TX/CS 847
Electrical engineering: Swept frequency microwave measurements and measurement of frequency spectrum CA/EN 78
Electrical engineers microprocessor system design MO/EN 484
Electrical engineers power electronics lab MA/EN 398
Electrical engineers solid state laboratory IN/IN 259
Electrical machines: Electromechanical energy conversion for the eighties NY/EN 591
Electrical methods: Revision of instruction and instrumentation in geophysics CA/EZ 51
Electrical physical measurements laboratory ME/PH 352
Electrical safety: Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Electrical technology: Instrumentation laboratory VA/EN 909
Electrical, engineering control systems laboratory OH/EN 669
Electricity: Experiments for freshman and sophomore physics labs TX/PH 846
Electricity: Improvement of instruction through the semi-paced teaching method KY/EN 328
Electroacoustic, noise control laboratory ME/EN 351
Electroanalysis: New experiments in equilibrium and analysis MN/CH 437
Electroanalytic module McKee Pederson MN/CH 441
Electroanalyzers Princeton Applied Research Co. PA/CH 782
Electrobalance Cahn surface tension NJ/CH 526
Electrocardiogram apparatus American Optical MI/PH 416
Electrocardiogram: Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Electrocardiograph activity: Simultaneous recording of three physiological parameters in vertebrates NY/BZ 576
Electrocardiograph Ampsco CA/BZ 75
Electrocardiograph Burdick MA/BZ 368
Electrocardiograph modules Pasco PA/PH 785
Electrocardiograph: Medical electronic instrumentation for pre-medical students TN/PH 820
Electrochemical measurements: Laboratory equipment for integrated junior and senior chemistry laboratory MN/CH 441
ElectroComp synthesizers 101 and 200 CA/PH 81
Electrode holder Phipps Bird NM/BZ 540
Electrode oxygen with recorder Yellow Springs CT/BZ 137
Electroencephalograph biofeedback Cyborg LA/PS 339
Electrolytic resistance indicator Leeds Northrup OK/EN 729
Electromagnetic blood flowmeter Carolina Medical Electronics IL/EN 234
Electromagnetic specification laboratory for optometry students TN/PH 823
Electromechanical control apparatus Ralph Gerbrands LA/PS 339
Electromechanical energy conversion for the eighties NY/EN 591
Electromechanical option: Electric machinery laboratory for four-year electrical engineering technology program KY/EN 322
Electromechanical technology electronics laboratory OK/EN 721
Electromyograph fiber optic recorder Teca MA/ZZ 370
Electromyograph processing system Cyborg LA/PS 339
Electron capture gas chromatography to outfit environmental chemistry laboratory NY/IN 578
Electron microscope scanning Advanced Metals Research MI/BZ 404
Electron microscope scanning ISI MT/EN 489 OH/BZ 699
Electron microscope scanning multi-discipline laboratory MT/EN 489
Electron microscopy plant morphology instruction CA/BZ 60
Electron microscopy scanning biologists MI/BZ 404
Electron microscopy scanning undergraduate training OH/BZ 699
Electron microscopy technician training program NY/IN 589
Electron orbitals theory: Equipment enhancement of general and organic chemistry courses AL/CH 8
Electronic activity meters Automex Columbus Instruments LA/PS 339
Electronic analytical instrumentation McKee Pedersen PA/CH 749
Electronic and medical instrumentation packages, Pasco Scientific, PI-8300 MN/PH 453
Electronic Associates Inc. (EAI) analogy hybrid computer EAI-180 AZ/EN 25
Electronic balance Ainsworth SC/BZ 800
Electronic balance Fisher Ainsworth SD/BZ 818
Electronic circuits: Electronics experiments for introductory physics laboratory IL/PH 210
Electronic counter Hewlett Packard NM/EN 541
Electronic courses Heath AR/PH 36
Electronic Designs alpha beta gamma laboratory system CO/CH 119
Electronic distance meter K and E SC/EN 806
Electronic distance meter used to teach basic surveying SC/EN 806
Electronic industrial controls instrumentation microprocessors OR/EN 732
Electronic instrumentation analysis PA/CH 749
Electronic instrumentation medical pre-medical students TN/PH 820
Electronic instrumentation physical measurements TX/PH 849
Electronic instrumentation principles NY/PH 598
Electronic instrumentation: Neurophysiological and behavioral experiments in undergraduate organismic biology laboratory MD/BZ 365
Electronic measurements for scientists GA/PH 175
Electronic measurements: Electronics experiments for introductory physics laboratory IL/PH 210
Electronic metrology: Improvement of laboratory experiences in electronics and electromechanical technology OK/EN 721
Electronic projects Science Fair MA/IN 397
Electronic stimulator Grass Instrument OH/BZ 696
Electronic stimulator Harvard NJ/BZ 530
Electronic switching circuits: Introduction to pulse circuits SC/EN 803
Electronic technicians computer maintenance AR/CS 35
Electronic technology laboratory MI/IN 423
Electronic test equipment calibration standards CA/EN 43
Electronic thermometer portable Atkins AZ/EZ 27
Electronics acoustics laboratory equipment WI/PH 944
Electronics computer interfacing chemists LA/CH 335
Electronics course based on integrated circuits IA/PH 275
Electronics courses up-grading IA/PH 293
Electronics digital laboratory computer NC/PH 637
Electronics electromechanical technology laboratory OK/EN 721
Electronics engineering technology: Microprocessors and microcomputers in undergraduate education UT/PH 883
Electronics experiments for introductory physics laboratory IL/PH 210
Electronics instruction course digital E and L Instruments Inc. OH/PH 684
Electronics instrumentation laboratory for life sciences students PA/PH 785
Electronics lab power electrical engineers MA/EN 398
Electronics laboratory non-calculus introductory AR/PH 36
Electronics minicourses scientists texts labs IA/PH 284
Electronics modular MPI NE/CH 496
Electronics modular spectrophotometer chemistry NE/CH 496
Electronics modules medical Pasco IL/PH 201
Electronics teaching physics laboratory CA/PH 77
Electronics technology laboratory for a two year degree TX/PH 842
Electronics with biomedical applications MN/PH 453
Electronics: Measurements in environmental science TX/IN 848
Electronics: Physics lab for biologists LA/PH 332
Electronics: Single instructor multilevel instruction for low enrollment courses IN/CH 261

Electronik recorder Honeywell NE/BZ 499
Electrons fields system Hickoc IL/PH 207
Electrophoresic chamber Gelman NY/BZ 570
Electrophoresic system acrylamine Bio Rad NY/IN 580
Electrophoresis apparatus disc Buchler Polyanalyst OR/BZ 731
Electrophoresis apparatus disc gel Buchler IN/BZ 243
Electrophoresis apparatus gel Sargent Welch OK/CH 710
Electrophoresis apparatus paper Sargent Welch MI/BZ 424
Electrophoresis apparatus Sepracteck Gelman NJ/BZ 522
Electrophoresis chamber Gelman IN/BZ 243 VA/CH 898
Electrophoresis disc gel Buchler Polyanalyst ND/CH 654
Electrophoresis ISCO power supply CO/CH 108
Electrophoresis power supply disc gel LKB ID/CH 197
Electrophoresis system, Gelman Sepra Tek power supply FL/BZ 151
Electrophoresis vertical gel E-C Apparatus PA/BZ 788
Electrophoresis: Advanced techniques in genetics laboratory for biology majors MI/BZ 419
Electrophoresis, physiograph, biofeedback physiological experiments FL/BZ 151
Electrophoretic apparatus Biorad TX/BZ 856
Electrophysiological Experiments for Science Majors and Medical Paraprofessionals MA/BZ 368
Electrophysiology: Videotaped FM simulations in physiology laboratory for health science ND/BZ 652
Electrostatic printer plotter Tektronix TX/EN 851
Electrostatic printer plotter Varian Statos 42 OH/BZ 666
Electro-optics: Applied optics for liberal arts students ID/PH 193
Elementary chemical instrumentation for computer-interfaced data acquisition and processing CT/CH 141
Elementary mathemathetical models computer-assisted MT/MA 492
Elementary pupils: Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Elementary statistics labs NY/MA 579
Elementary teacher improvement biological science AZ/BZ 24
Elementary teachers: Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Elliot geophysical PP-2A magnetic susceptibility meter HI/EZ 189
Ellipsometer optical Saertner UT/PH 881
Elmo projector ST-1200 PA/SZ 774
Embryology and histology for premedical and predental students LA/BZ 341
Embryology: Centralized tissue culture facility for students in biological sciences OK/BZ 718
Embryology: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
EMG amplifiers Teca MA/ZZ 370
Emg: Biofeedback laboratory for undergraduate independent research OH/PS 670
Empirical research: Computer based approach to teaching introductory sociology OH/SZ 685
Emulator Intel TX/EN 876
Enclosure peripheral projection Viewlex Inc. AR/ZZ 41
Endevco accelerometers NM/EN 541
Endocranial volume: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Endocrine glands workshop and research laboratory SD/BZ 818
Endocrinology: Physiological and pharmacological laboratory additions to biopsychology core courses DC/PS 147
Endocrinology, ultracentrifugation methodologies KY/BZ 315
Energy and sun and synthesis of astronomy and technology CO/PH 122
Energy awareness in engineering physics PA/PH 771
Energy balances: Computer-based PLATO instruction in chemical engineering IL/EN 231
Energy conservation: Mechanical engineering undergraduate laboratory NM/EN 541
Energy conservation: Physics laboratory for architects AR/IN 37
Energy conversion: Power electronics lab for electrical engineers MA/EN 398
Energy electromechanical conversion NY/EN 591
Energy option in mechanical engineering IN/EN 265
Energy topics videocassettes MS/PH 467
Energy transfer: Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
Energy transport: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Energy: Biology learning center primarily for nonscience majors SC/BZ 809
Energy: Combustion and solution calorimetry in undergraduate organic chemistry WV/CH 929
Energy: Computer control of an interconnected model power system NC/EN 645
Energy: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Energy: Computerized data acquisition for mechanical engineering undergraduates NY/EN 557
Energy: Development of laboratories for production and safety engineering MO/ZZ 482
Energy: Economics of undergraduate laboratory instruction OH/CH 664
Energy: Electromechanical energy conversion for the eighties NY/EN 591
Energy: Energy and sun and synthesis of astronomy and technology CO/PH 122
Energy: Equip and assemble a solar laboratory CO/ZZ 120
Energy: Equipment purchase for improvement of geophysics program OH/EZ 693
Energy: Experimental ecology laboratory for life sciences undergraduates NE/BZ 499
Energy: Four-machine model electric power system for power engineering laboratory MO/EN 483
Energy: Gas turbine and digital data acquisition system OK/EN 730
Energy: Geology laboratory improvement OK/EZ 724
Energy: Improvement of analytical instrumentation and reactor equipment ID/EN 196
Energy: Improvement of teaching in science, mathematics, and social sciences IL/IN 205
Energy: Instructional scientific equipment program RI/BZ 794
Energy: Integrated science laboratory module improvement TX/IN 839
Energy: Laboratory simulation of electric power transmission sytems TN/EN 822
Energy: Mechanical engineering undergraduate laboratory NM/EN 541
Energy: Multidisciplinary laboratory course for science majors CA/IN 103
Energy: Nogero subsistence and ecology OR/IN 738
Energy: Nuclear physics laboratory for science and non-science majors VT/PH 887
Energy: Physics laboratory for architects AR/IN 37
Energy: Power electronics lab for electrical engineers MA/EN 398
Energy: Power systems laboratory to simulate systems using miniaturized equipment NC/EN 644
Energy: Revision of instruction and instrumentation in geophysics CA/EZ 51
Energy: Solar cell and Schottky diode fabrication, thermoelectricity lab experiments NY/EN 575
Energy: Solar thermal student laboratory and classroom demonstration CO/PH 123
Energy: Specialized microbiology subcourse for undergraduates MA/BZ 379
Energy: Steam power laboratory for technology and engineering OK/EN 717
Energy: Studies on radiation, projection, and radioactivity for science majors OH/IN 689
Energy: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Energy: Transport processes laboratory for undergraduate engineers NY/EN 603
Energy: Undergraduate health physics degree program MO/PH 479
Energy: Undergraduate instruction in photogeology CA/EZ 87
Energy: Unified science course for minimally motivated students MA/IN 397
Energy: Use of microprocessors in automatic control systems KS/EN 303 KS/EN 304
Energy: Worden gravity meter purchase for geology and geophysics KY/EZ 330
Energy, environment, chemical technologies courses NY/CH 548
Engelhard fuel cell 15-S GA/PH 181
Engine Mercury boat Boston Whaler IL/BZ 209
Engineering ambience introductory physics NY/PH 560
Engineering applications problem modules for undergraduate engineering mathematics programs WV/MA 926
Engineering chemical laboratory OK/EN 729
Engineering chemical laboratory data acquisition CO/EN 121
Engineering computer aided manufacturing PA/EN 769
Engineering computer digital design laboratory WI/EN 937
Engineering computer electrical microprocessor laboratory TX/EN 876
Engineering courses color video tapes OK/EN 714
Engineering creativity course PA/EN 756
Engineering curriculum computer graphics OH/CS 697
Engineering curriculum mining safety operations laboratory AZ/EN 29
Engineering design graphics computer TX/EN 851
Engineering design learned using computers and microprocessor simulated plants IN/EN 264
Engineering design manufacturing teaching modules IN/EN 269
Engineering design projects KS/EN 310
Engineering design: Curriculum in interactive graphics favoring manufacturing applications NM/CS 542
Engineering design: Introductory physics with an engineering ambience for non-science majors NY/PH 560
Engineering drafting: Curriculum in interactive graphics favoring manufacturing applications NM/CS 542
Engineering education computer graphics WI/EN 947
Engineering education hybrid computer SD/EN 816
Engineering electrical computer science MO/EN 486
Engineering electrical machinery laboratory KY/EN 322
Engineering electrical materials ME/EN 354
Engineering electrical microcomputer laboratory NJ/EN 521
Engineering electrical microcomputers CAI MI/EN 426
Engineering electrical microprocessor laboratory PA/EN 757
Engineering electrical, mechanical, chemical control systems laboratory OH/EN 669

Engineering environmental IL/EN 232
Engineering experimentation instructional materials sophomores NJ/EN 531
Engineering fluid mechanics laboratory IL/EN 203
Engineering food technology laboratory KS/EN 300
Engineering freshmen computer graphics MS/EN 464
Engineering geology: Undergraduate instruction in photogeology CA/EZ 87
Engineering instructional equipment TX/EN 852
Engineering Lab Design diffusion cell 208 NY/EN 603
Engineering Lab Design wetted-wall column 209 NY/EN 603
Engineering laboratories aerospace programmable data acquisition TX/EN 873
Engineering laboratory chemical analytical equipment TN/EN 825
Engineering laboratory chemical computer-aided MO/EN 488
Engineering Laboratory Design Inc. chemical reactor multipurpose bench OK/EN 729
Engineering laboratory electric power MO/EN 483
Engineering laboratory environmental VA/EN 895
Engineering laboratory: Computer graphics for instructional use MN/EN 454
Engineering majors: Transport processes laboratory for undergraduate engineers NY/EN 603
Engineering management: Development of laboratories for production and safety engineering MO/ZZ 482
Engineering materials laboratory transportation TN/EN 826
Engineering materials test system CO/EN 126
Engineering mathematics applications problem modules WV/MA 926
Engineering mechanical computerized data acquisition NY/EN 557
Engineering mechanical energy option IN/EN 265
Engineering mechanical laboratory NM/EN 541
Engineering physical science mathematical biology VA/MA 897
Engineering physics energy awareness PA/PH 771
Engineering physics equipment and interfacing with microcomputers OH/PH 678
Engineering physics laboratory package MS/IN 461
Engineering properties of materials courses CO/EN 113
Engineering science laboratories WY/EN 953
Engineering seismograph Nimbus Instruments MI/EZ 432
Engineering structural computer graphics VA/EN 894
Engineering students mechanical dynamics control systems laboratory AZ/EN 25
Engineering students stereoplotter WI/EN 948
Engineering technology holographic laboratory equipment WI/PH 939
Engineering technology instrumentation PA/EN 776
Engineering technology laboratory environmental CO/EN 118
Engineering technology program microprocessor equipment NJ/EN 517
Engineering technology steam power laboratory OK/EN 717
Engineering water analysis laboratory IL/EN 226
Engineering: Application of computer graphics to structural dynamics instruction NY/EN 586
Engineering: Audio tutorial self paced experiments open channel flow OR/EN 734
Engineering: Automated industrial facility simulator laboratory IN/EN 254
Engineering: Computer assisted control in laboratory practice CA/EN 44
Engineering: Computer assisted laboratory instruction MA/EN 392
Engineering: Computer assisted mechanical systems analysis and synthesis laboratory NH/EN 513
Engineering: Computer control of an interconnected model power system NC/EN 645
Engineering: Computer generated phase diagrams in thermodynamics education IA/EN 279
Engineering: Computer graphics in mechanical design TX/EN 865
Engineering: Computer hardware and microcomputer systems laboratory IN/EN 266
Engineering: Computer simulated sampling game for study of quality control OK/EN 715
Engineering: Computer-aided process design and simulation NY/EN 606
Engineering: Development of a course on recycling of materials OH/EN 668
Engineering: Development of a stepping motor laboratory ME/EN 353
Engineering: Development of heat treatment and metallography laboratory SC/EN 807
Engineering: Digital electronics laboratory interfaced to an on-line computer NC/PH 637
Engineering: Digital systems and microcomputer laboratory CO/EN 125
Engineering: Electromechanical energy conversion for the eighties NY/EN 591
Engineering: Electronic distance meter used to teach basic surveying SC/EN 806
Engineering: Equipment for teaching of behavior circuits in time domain OR/EN 740
Engineering: Equipment improvement for teaching microprocessor interfacing technology VT/EN 891
Engineering: Establishment of calibration standards for electronic test equipment CA/EN 43
Engineering: Fluid mechanics laboratory on open channel flow OR/EN 733
Engineering: Fluid power systems laboratory equipment for technology students MI/EN 401
Engineering: Gamma spectrometry and time analysis for nuclear detection laboratory GA/EN 179
Engineering: Gas turbine and digital data acquisition system OK/EN 730
Engineering: Hydraulics, hydrology, fluid mechanics experiments for undergraduate civil engineers VA/EN 902
Engineering: Improvement of analytical instrumentation and reactor equipment ID/EN 196
Engineering: Improvement of instruction through the semi-paced teaching method KY/EN 328
Engineering: Improvement of laboratory experiences in electronics and electromechanical technology OK/EN 721
Engineering: Improvements in a projects laboratory with a spray dryer UT/EN 880
Engineering: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Engineering: Instrumentation and microprocessor laboratory for mechanical and chemical engineers FL/EN 168
Engineering: Instrumentation laboratory VA/EN 909
Engineering: Integrated circuit laboratory improvement CA/EN 88
Engineering: Interactive computer graphics for simulation of large construction operations CA/EN 83
Engineering: Interactive flow sheet information processing system NY/EN 581
Engineering: Introduction of computer graphics to mechanical design TX/EN 868
Engineering: Introduction to environmental concepts for engineers IN/EN 257
Engineering: Introduction to pulse circuits SC/EN 803
Engineering: Introductory fluid mechanics for engineers IA/EN 280
Engineering: Junior level microprocessor laboratory and course IN/EN 253
Engineering: Laboratory equipment for polymer processing MA/EN 394
Engineering: Laboratory for statistical communication theory DC/EN 150
Engineering: Laboratory simulation of electric power transmission systems TN/EN 822
Engineering: Land surveying measurements and computations laboratory LA/EN 338
Engineering: Laser applications and modern optics RI/EN 791
Engineering: Low cost microcomputer controllers, use, and applications CA/EN 97
Engineering: Materials testing laboratory for small group instruction RI/EN 793
Engineering: Microcomputer system for undergraduate direct digital process control laboratory MS/EN 470
Engineering: Microprocessor based interdisciplinary laboratory CO/EN 111
Engineering: Microprocessor design laboratory KY/EN 327
Engineering: Microprocessor laboratory IN/EN 252
Engineering: Microprocessors in modeling of electronic industrial controls and instrumentation OR/EN 732
Engineering: Minicomputer based material testing data acquisition system GA/EN 180
Engineering: Model testing studio for architectural structures PA/EN 775
Engineering: New transportation component for an interactive technology society course NJ/EN 524
Engineering: Nondistructive ultrasonic, magnetic-particle, penetrant, and radiographic testing of materials IN/EN 268
Engineering: Optical information processing experiments for undergraduates TX/EN 859
Engineering: Optics for pre-college science teachers and scientists NY/EN 627
Engineering: Options in junior and senior year in professional courses NY/EN 633
Engineering: Personal minicomputers to aid undergraduate instruction in computer design AL/EN 4
Engineering: Power electronics lab for electrical engineers MA/EN 398
Engineering: Power systems laboratory to simulate systems using miniaturized equipment NC/EN 644
Engineering: Process dynamics and control experiment development OH/EN 708
Engineering: Programming language translations using microprocessor emulated microcoding NY/EN 584
Engineering: Scanning electron microscope for multi-discipline undergraduate laboratory classes MT/EN 489
Engineering: Self-paced proficiency modules for teaching statics and dynamics labs IL/EN 228
Engineering: Semiconductor material and device project laboratory stressing data validation NY/EN 628
Engineering: Senior level environmental air pollutants sampling and monitoring course IN/EN 267
Engineering: Slide and tape programs for medical instrumentation WI/EN 942
Engineering: Small computer for students and faculty in several departments CA/IN 67
Engineering: Small mechanical vibrations laboratory OH/EN 703

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Engineering: Society and the engineer, and analysis of product failures NY/EN 582
Engineering: Sophomore laboratory on programmed logic AZ/EN 31
Engineering: Thermal fluids laboratory sequence VA/EN 903
Engineering: Thick film hybrid circuit laboratory PA/EN 761
Engineering: Undergraduate communication, electroacoustic, and environmental noise control laboratory ME/EN 351
Engineering: Undergraduate semiconductor device fabrication projects TX/EN 858
Engineering: Underwater side scan sonar system FL/EN 160
Engineering: Use of microprocessors in automatic control systems KS/EN 303 KS/EN 304
Engineers chemistry course restructuring OK/CH 716
Engineers civil hydraulics, hydrology, fluid mechanics experiments VA/EN 902
Engineers electrical microprocessor system design MO/EN 484
Engineers electrical power electronics lab MA/EN 398
Engineers electrical solid state laboratory IN/IN 259
Engineers environmental concepts IN/EN 257
Engineers fluid mechanics IA/EN 280
Engineers microcomputer laboratory computer scientists NH/CS 514
Engineers transducers biomedical laboratory IL/EN 234
Engineers transport processes laboratory NY/EN 603
Engineer, analysis product failures NY/EN 582
Engines Mercury Mako boat IL/BZ 209
Enrichment microseminars for introductory biology students VA/BZ 904
Enrichment: Modules in history of mathematics NY/MA 565
Entomology modulized course FL/BZ 166
Entry exams: Entry self-study modules for undergraduate chemistry students OK/CH 725
Entry self-study modules for undergraduate chemistry students OK/CH 725
Entry station batch remote KS/SZ 311
Environator growth chamber Percival SD/BZ 813
Environator plant growth chamber E-42 PA/BZ 780
Environment animal operant test Coulbourn TX/PS 879
Environment Lake Michigan biota IL/BZ 209
Environment oriented aerial photo interpretation laboratory for science majors IL/SZ 237
Environment simulator for systems software development TN/CS 831
Environment undergraduate learning restructuring HI/CH 188
Environmental air pollutants sampling monitoring IN/EN 267
Environmental chamber inexpensive construction NY/BZ 571
Environmental chamber Lab-Line NC/ZZ 651
Environmental chambers Percival UT/BZ 882
Environmental chemistry laboratory electron capture gas chromatography NY/IN 578
Environmental concepts engineers IN/EN 257
Environmental control: Water analysis laboratory for environmental technology and engineering IL/EN 226
Environmental education: Environmental studies program field equipment project NC/ZZ 651
Environmental effects: Super-speed centrifuge for molecular biology OK/BZ 711
Environmental engineering IL/EN 232
Environmental engineering laboratory for civil engineering students VA/EN 895
Environmental engineering technology laboratory for four-year city college CO/EN 118
Environmental engineering: Audio tutorial self paced experiments open channel flow OR/EN 734
Environmental engineering: Fluid mechanics laboratory on open channel flow OR/EN 733
Environmental growth chamber M-13 IN/ZZ 251
Environmental noise classifier Bruel and Kjaer ME/EN 351
Environmental noise control laboratory ME/EN 351
Environmental physiological ecology health students ME/BZ 348
Environmental physiology: Comparative animal physiology laboratory OH/BZ 696
Environmental plant growth control for students of technical agriculture MN/BZ 459
Environmental project oriented field and laboratory science classes CA/EZ 52
Environmental radiation thermoluminescent dosimetry IN/PH 242
Environmental research institute and simulated undergraduate research laboratory NY/CH 577
Environmental science measurements TX/IN 848
Environmental studies program field equipment project NC/ZZ 651
Environmental technician training for two-year college students NJ/CH 515
Environmental technology water analysis laboratory IL/EN 226
Environment: Aquatic ecology for liberal arts undergraduate women VA/IN 901
Environment: Atomic absorption and mass spectrometry in analytical organic chemistry NY/CH 630
Environment: Atomic Absorption Spectrophotometry and Polarography in integrated chemistry laboratories PA/CH 786
Environment: Basic principles applied radiation physics NY/PH 599
Environment: Biology learning center primarily for nonscience majors SC/BZ 809
Environment: Combustion and solution calorimetry in undergraduate organic chemistry WV/CH 929
Environment: Computer assisted course in biomathematics MI/MA 418
Environment: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Environment: Computerized data analysis for taxonomy, plant identification and systematics WA/BZ 920
Environment: Construction of inexpensive environmental chamber NY/BZ 571
Environment: Curriculum development in plant, animal, and microbial physiology SD/BZ 813
Environment: Development of a course on recycling of materials OH/EN 668
Environment: Development of laboratories for production and safety engineering MO/ZZ 482
Environment: Development of modules on current mathematical applications MD/MA 358
Environment: Economics of undergraduate laboratory instruction OH/CH 664
Environment: Educational system utilizing water management modules NY/EN 623
Environment: Electron capture gas chromatography to outfit environmental chemistry laboratory NY/IN 578
Environment: Endocrine glands workshop and research laboratory SD/BZ 818
Environment: Engineering design learned using computers and microprocessor simulated plants IN/EN 264
Environment: Environment oriented aerial photo interpretation laboratory for science majors IL/SZ 237
Environment: Environmental engineering laboratory for civil engineering students VA/EN 895
Environment: Environmental engineering technology laboratory for four-year city college CO/EN 118
Environment: Environmental plant growth control for students of technical agriculture MN/BZ 459
Environment: Environmental research institute and simulated undergraduate research laboratory NY/CH 577
Environment: Equip and assemble a solar laboratory CO/ZZ 120
Environment: Equipment for laboratories in aquatic ecology NY/BZ 607
Environment: Experimental ecology laboratory for life sciences undergraduates NE/BZ 499
Environment: Field experience in botany, geology, oceanography, and interdisciplinary science FL/IN 159
Environment: Field experience in marine biology for undergraduate women MD/BZ 359
Environment: Field studies program for science students NC/BZ 642
Environment: Gas chromatograph mass spectrometer system for undergraduate chemistry laboratories CA/CH 62
Environment: General biology and independent studies MI/BZ 415
Environment: Geology laboratory improvement OK/EZ 724
Environment: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Environment: Guided design projects for physical science course WV/IN 927
Environment: High pressure liquid chromatography teaching tool for undergraduate chemistry IN/CH 263
Environment: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Environment: Hydraulics, hydrology, fluid mechanics experiments for undergraduate civil engineers VA/EN 902
Environment: Improvement in organic, inorganic, and student research laboratories CA/CH 76
Environment: Improvement in public understanding of chemicals in food NY/CH 559
Environment: Improvement of teaching in science, mathematics, and social sciences IL/IN 205
Environment: Improvement of undergraduate studies in petrography NY/EZ 569
Environment: Improving scientific competency for students in allied chemical fields CT/CH 133
Environment: Independent field marine laboratory for two-year college students FL/BZ 158
Environment: Independent research projects in microbiology CT/BZ 137
Environment: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Environment: Instructional equipment for Kirkwood's activated sludge training program IA/ZZ 283
Environment: Instructional scientific equipment program RI/BZ 794
Environment: Integrated science laboratory module improvement TX/IN 839
Environment: Interactive timesharing computing environment for forest science instruction WI/ZZ 941
Environment: Interpretation of satellite imagery by computer quantitative methods NY/EZ 614
Environment: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Environment: Investigative introductory geology course in the field in Montana IN/EZ 246
Environment: Lab curricula in estuarine ecology, limnology and comparative physiology NY/BZ 563

Environment: Laboratory Courses in Modern Analytical and Physical Chemistry PA/CH 782
Environment: Laboratory equipment for physical chemistry labs IL/CH 202
Environment: Laboratory instruction in modern scientific techniques for physics students OH/PH 684
Environment: Lecture, laboratory manuals, and audiovisual aids in vertebrate physiology NY/BZ 593
Environment: Marine biology: sampling mud organisms and water sample measurements CA/BZ 68
Environment: Marine science fluorometric determination of chlorophyll and water movement NY/ZZ 573
Environment: Mathematics and computing for undergraduate marine scientists NY/MA 572
Environment: Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation KY/BZ 315
Environment: Microbiological laboratory equipment for four-year college NJ/BZ 519
Environment: Modernized plant physiology laboratory for four-year college PA/BZ 780
Environment: Modules in aquatic microbiology for microbiology, non-microbiology courses NY/BZ 619
Environment: Multidisciplinary laboratory course for science majors CA/IN 103
Environment: Natural science designed for the disadvantaged learner CA/IN 85
Environment: New soil geography course AZ/EZ 27
Environment: New transportation component for an interactive technology society course NJ/EN 524
Environment: Nogero subsistence and ecology OR/IN 738
Environment: Nuclear physics laboratory for science and non-science majors VT/PH 887
Environment: Optional activities for undergraduate animal biology students OK/BZ 719
Environment: Pilot equipment and instrumentation for engineering technology training PA/EN 776
Environment: Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Environment: Remote sensing for forestry students IL/EZ 220
Environment: Revision of instruction and instrumentation in geophysics CA/EZ 51
Environment: Scanning electron microscopy for undergraduate plant morphology instruction CA/BZ 60
Environment: Science laboratory project in support of community research needs CA/BZ 66
Environment: Self paced minicourses in biology for the general student VA/BZ 896
Environment: Self-paced introductory environmental engineering IL/EN 232
Environment: Senior level environmental air pollutants sampling and monitoring course IN/EN 267
Environment: Specialized microbiology subcourse for undergraduates MA/BZ 379
Environment: Steam power laboratory for technology and engineering OK/EN 717
Environment: Student interpretation of landsat imagery NC/EZ 649
Environment: Studies on radiation, projection, and radioactivity for science majors OH/IN 689
Environment: Surrogate field experience for geography students CA/SZ 54
Environment: Survey of applied mathematics for life scientists TX/MA 872
Environment: Teaching about algae with an audio-tutorial module ND/BZ 660
Environment: Teaching of thermoluminescent dosimetry of environmental radiation IN/PH 242
Environment: Techniques for studying the Lake Michigan biota and environment IL/BZ 209
Environment: Tornado flow theory IA/IN 278
Environment: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Environment: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Environment: Undergraduate health physics degree program MO/PH 479
Environment: Undergraduate instruction in photogeology CA/EZ 87
Environment: Undergraduate marine science educational equipment SC/IN 808
Environment: Undergraduate meteorological laboratory equipment WA/ZZ 921
Environment: Undergraduate oceanographic curriculum rice university TX/EZ 845
Environment: Undergraduate research program in marine biology CA/BZ 82
Environment: Unified science course for minimally motivated students MA/IN 397
Environment: Worden gravity meter purchase for geology and geophysics KY/EZ 330
Environment, energy, chemical technologies courses NY/CH 548
Enzyme isolation: Project type experiments emphasizing molecular biochemistry for pre-professional students ND/CH 654
Enzyme kinetics: Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
Enzyme uv kinetics medial technology FL/ZZ 161
Enzymic techniques: Undergraduate laboratory instruction in nutritional science NY/BZ 566
Enzymology: Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Epi fluorescence illuminator Zeiss WI/BZ 952
EPROM eraser Ultraviolet Products Inc. VT/EN 891
EPROM programmer personality module Future Data MO/EN 484
Equilibrium analysis new experiments MN/CH 437
Equip and assemble a solar laboratory CO/ZZ 120
Equipment and audiovisual aids update for microbiology and biochemistry MI/BZ 424
Equipment audiovisual computer teaching mathematics AL/MA 6
Equipment enhancement of general and organic chemistry courses AL/CH 8
Equipment for forensic science laboratory CT/ZZ 139
Equipment for introductory biochemistry laboratory courses ID/CH 197
Equipment for introductory physics laboratory and demonstrations SD/PH 819
Equipment for laboratories in aquatic ecology NY/BZ 607
Equipment for teaching of behavior circuits in time domain OR/EN 740
Equipment for upper division undergraduate applied chemical laboratory work OR/CH 744
Equipment geophysics exploration HI/EZ 189
Equipment improvement for teaching microprocessor interfacing technology VT/EN 891
Equipment instructional human anatomy physiology AL/BZ 11
Equipment purchase for improvement of geophysics program OH/EZ 693
Equipment scientific licensed practical nursing program AK/BZ 20
Equipment scientific speech hearing science AZ/ZZ 23
Equipment update: Undergraduate equipment grant for interdisciplinary biochemistry course NY/IN 580
Equipping a social science laboratory KS/SZ 311
ER 5A Burdick electrocardiograph MA/BZ 368
Eraser EPROM Ultraviolet Products Inc. VT/EN 891
ESR spectrometer Micro Now NJ/CH 526
Establishment of calibration standards for electronic test equipment CA/EN 43
Esterline Angus Co. 20-channel event recorder MD/BZ 365
Estuarine ecology, limnology comparative physiology lab curricula NY/BZ 563
Estuarine studies laboratory transport vehicle FL/IN 153
Ethics computer NY/IN 585
Ethics life science honors program NJ/IN 537
Ethics: Bioethics course for undergraduate non-science majors and the public WI/IN 950
Ethnic relations: Self paced video and computer assisted instruction in ethnography CA/SZ 93
Ethnographic laboratory instructional CA/SZ 92
Ethnography video and computer assisted instruction CA/SZ 93
Ethnology: Instructional ethnographic laboratory CA/SZ 92
Ethnology: Self paced video and computer assisted instruction in ethnography CA/SZ 93
Evaluation adaptive computer instruction IA/SZ 292
Evaluation kit Intel IL/CS 225
Evaluation kit Motorola IL/CS 225
Evaluation of program: Guided design in interdisciplinary introductory college science program NJ/IN 529
Evaporation: Food engineering technology laboratory for four year program KS/EN 300
Evaporator vacuum Polaron MI/BZ 404
Evolution: Modular materials that assist biology students in investigation IL/BZ 235
Evolution: Nogero subsistence and ecology OR/IN 738
Evolution, computer simulated populations KS/BZ 301
Excitation spectra: Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
Exciter control B and K OH/EN 703
Exciter vibration B and K OH/EN 703
Execuport portable computer terminal 383 with APL IA/MA 274
Executive government: Science and the public process IL/ZZ 217
Exercise physiology: Laboratory experiences in the exercise sciences AZ/BZ 32
Exercise sciences laboratory experiences AZ/BZ 32
Exercise therapeutic laboratory experiences MA/ZZ 370
Exhaust gas analysis: Steam power laboratory for technology and engineering OK/EN 717
Exorciser Motorola Semiconductor Products MN/CS 451
Expander box power supply American used computer MO/EN 488
Expansion and improvement of physiology laboratory courses in zoology IA/BZ 277
Expansion of advanced biology laboratory experiences PA/BZ 788
Expansive soils testing: Dynamic test system for engineering materials and soils CO/EN 126
Experiences laboratory exercise sciences AZ/BZ 32
Experiment design: Economics of undergraduate laboratory instruction OH/CH 664
Experimental and seminar approaches in introductory sociology TX/SZ 836
Experimental approach to study of botanical microorganisms UT/BZ 882

Experimental biopsychology: Perception laboratory apparatus for general undergraduate psychology teaching IL/PS 223
Experimental cell biology techniques undergraduate biology majors AL/BZ 3
Experimental concepts and techniques: Instructional materials for engineering experimentation for sophomores and higher NJ/EN 531
Experimental design course laboratories MA/BZ 399
Experimental design for physiology concept reinforcement and skill acquisition CA/BZ 75
Experimental design: Laboratory Courses in Modern Analytical and Physical Chemistry PA/CH 782
Experimental ecology laboratory for life sciences undergraduates NE/BZ 499
Experimental learning: Consultant prepared data-based reading assignments for political science mini-courses OH/SZ 676
Experimental physics: Short courses on special topics in physics NY/PH 616
Experimental psychology computer assisted MI/PS 402
Experimental psychology laboratory computer controlled MS/PS 469
Experimental psychology laboratory for undergraduate instruction NC/PS 640
Experimental psychology laboratory training program TX/PS 879
Experimental psychology laboratory: Basic laboratory equipment for teaching physiological psychology TX/PS 843
Experimental psychology: Computer managed laboratories for four cognitive physchology courses FL/PS 165
Experimental psychology: Experimental psychology laboratory for undergraduate instruction NC/PS 640
Experimental psychology: Laboratory equipment teaching perception, operant conditioning, psychobiology, and statistics KY/PS 321
Experimental psychology: Physiology laboratories and audiovisual demonstrations for pre-health professions NE/BZ 496
Experimental psychology: Undergraduate psychology laboratory for experiments with human subjects TN/PS 834
Experimental setups, miniaturized Tecquipment IL/EN 203
Experimental training: Development of solid state laboratory for undergraduate electrical engineers IN/IN 259
Experimental work: Laser applications and modern optics RI/EN 791
Experimentation engineering instructional materials sophomores NJ/EN 531
Experimentation: Software for instruction in cognitive psychology laboratory CO/PS 127
Experiments chemistry non-science majors NH/CH 511
Experiments electronics physics laboratory IL/PH 210
Experiments for freshman and sophomore physics labs TX/PH 846
Experiments new equilibrium analysis MN/CH 437
Experiments nuclear physics MN/PH 436
Experiments optical information processing TX/EN 859
Experiments physical chemistry NE/CH 501
Experiments physical chemistry molecular events NJ/CH 526
Experiments physics majors IL/PH 207
Experiments physiological physiograph, electrophoresis, biofeedback FL/BZ 151
Experiments physiotape prerecorded Narco Biosystems NE/BZ 495
Experiments science laboratory computer control MD/IN 361
Experiments simulated computer physics FL/PH 155
Experiments spectroscopy chemistry labs GA/CH 182
Exploiting programmable calculators and plotter combinations IA/MA 287
Exploranium portable gamma ray spectrometer Geometrics HI/EZ 189
Exploration equipment geophysics HI/EZ 189
Exploration geophysics seismic equipment MI/EZ 432
Exploration geophysics: Equipment purchase for improvement of geophysics program OH/EZ 693
Extruder Killion MA/EN 394
Eye movement monitor Applied Science Lab. PA/PS 765
Eye Trac eye movement monitor Applied Science Lab. PA/PS 765
E. B. and G. photometer 450 PA/PS 765
E. L. Instruments Elite 3 breadboarding system KY/EN 327
E-C Apparatus vertical gel electrophoresis system PA/BZ 788
Fabrication projects semiconductor device TX/EN 858
Fabri-Tek 16-Kword core memory system MA/CS 393
Facial architecture of primates: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Facilities improved microbiology courses AZ/BZ 21
Facility planning courses: Automated industrial facility simulator laboratory IN/EN 254
Fan test setup, Flint Engineers IL/EN 203
Farquhar 20 inch star globe SD/PH 811
Fast coincidence unit Nuclear Data MN/PH 436
Fat extraction 6-unit apparatus Goldfisch CA/ZZ 59
Fatty acid derivatives: Nuclear magnetic resonance spectrometry in undergraduate teaching and research IN/CH 248
Fat: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Fault studies: Laboratory simulation of electric power transmission systems TN/EN 822
Feasibility study of self-paced algebra and trigonometry for college NE/MA 503
Fecal coliform kit Hach Chemical NC/ZZ 651
Feed water treatment: Steam power laboratory for technology and engineering OK/EN 717
Feedback Inc. digital control system NC40X OH/EN 669
Feedback Inc. pneumatic position control system PCM 140 OH/EN 669
Feedback Inc. process control simulator PGS 327 OH/EN 669
Feedback Inc. servo control system MS 150-2 OH/EN 669
Feedback Systems Inc. d.c. servo system MS150GM AZ/EN 25
Fermentation: Food engineering technology laboratory for four year program KS/EN 300
Ferranti rotational viscometer VL NY/EN 603
Ferromagnetic table 12ft. Modern optics Corporation CO/ZZ 120
Fiber optic recorder electromyograph Teca MA/ZZ 370
Fiberglass casts hominid physical anthropology TX/SZ 850
Fiberglass casts pongids National Museums Kenya TX/SZ 850
Fiction science films PA/PH 781
Field and laboratory: Introductory physical geology for law enforcement studies students OH/EZ 679
Field equipment environmental studies NC/ZZ 651
Field experience in botany, geology, oceanography, and interdisciplinary science FL/IN 159
Field experience in marine biology for undergraduate women MD/BZ 359
Field marine laboratory college students FL/BZ 158
Field sciences field ID/IN 190
Field studies program for science students NC/BZ 642
Field study: Modular materials that assist biology students in investigation IL/BZ 235
Field trips: Optional activities for undergraduate animal biology students OK/BZ 719
Field vehicle for field sciences ID/IN 190
Field work: Instructional ethnographic laboratory CA/SZ 92
Field work: Self paced video and computer assisted instruction in ethnography CA/SZ 93
Fields system electrons Hickoc IL/PH 207
Field-oriented training: Equipment purchase for improvement of geophysics program OH/EZ 693
Film blowing line Killion MA/EN 394
Film loop projector Aves MO/BZ 473
Film loop projector Technicolor IN/ZZ 251
Film loop viewer Besseler IL/IN 229
Film thick hybrid circuit laboratory PA/EN 761
Filmloop program human genetics Milner Fenwick LA/BZ 337
Filmloop projector Technicolor SC/BZ 809
Films science fiction PA/PH 781
Filmsound movie projector Bell Howell SC/BZ 796
Filmstrip cassette biochemistry Wards MI/BZ 424
Filmstrip projector Singer IA/MA 271
Film: Instructional ethnographic laboratory CA/SZ 92
Filter FITC NY/BZ 609
Filter fluorimeter Turner NJ/CH 526
Filter octave analysis B and K MN/EN 454
Filter trickling microtower B. F. Goodrich PA/EN 776
Filter variable Krohu Hite TX/EN 852
Filters EEG Coulbourn Instruments KY/PS 312
Filters fluorescence Zeiss WI/BZ 952
Final phase of anthropology 1 course improvement PA/SZ 774
Finishing machine belt Rockwell SC/EN 807
Finnigan 3200 F-100 electron impact ionization source CA/CH 62
Fintronics signal processor OH/PS 638
First year calculus with computer CT/MA 145
Fischer Technik toy parts IN/EN 254
Fish net: Undergraduate marine science educational equipment SC/IN 808
Fish pathology and physiology: Instructional scientific equipment program RI/BZ 794
Fisher Accumet pH meter 140A AZ/BZ 21
Fisher Accumet pH meters PA/EN 776
Fisher Accumet 140 pH meters PA/EN 776
Fisher Acumet pH meter TX/IN 848
Fisher Acumet 230 pH meter NY/BZ 570
Fisher Ainsworth electronic balance A200 SD/BZ 818
Fisher automatic clinical microtome A0880 NC/IN 638
Fisher BOD incubator 146 NC/IN 638
Fisher Circustat baths MN/CH 441
Fisher direct reading platform animal balance SD/BZ 818
Fisher Kjeldahl digestion unit Macro-Twin 13-158 NY/BZ 566
Fisher refrigerated centrifuge KS/EN 300
Fisher Scientific Co. refractometer, Abbe CT/ZZ 139
Fisher Scientific Helios planetarium S45167F IL/IN 229
Fisher Scientific sonic vibrator TX/EZ 84[illegible]
Fisher Stansi air bearing turntable SD/PH 819
Fisher tensiometer 20 NH/PH 508
Fisher tissue homogenizer 300 PA/ZZ 766
Fisher water bath 220 NC/IN 638
Fisher 21 surface tensiometer KS/EN 300
Fisher 4.5 cu. ft. incubator PA/ZZ 766
Fisheries management: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Fishery biology: Equipment for laboratories in aquatic ecology NY/BZ 607
Fish: Science laboratory project in support of community research needs CA/BZ 66

FITC filter 31-35-16 NY/BZ 609
Fixation behavior kit Stoelting Co. NY/PS 588
Fixed angle rotor Beckman ID/IN 192
Flame emission spectroscopy: Atomic absorption spectrophotometry in undergraduate quantitative analysis NY/CH 568
Flame photometer Coleman IA/BZ 277
Flameless atomizer Instrumentation Laboratory IN/CH 240
Flexible disk drive Data Systems Design MS/PS 469
FLEX-TRAN heat flow meters 690 AR/IN 37
Floppy disc Digital Equipment Corp. MI/PS 402
Floppy disk control unit DEC NJ/CS 532
Floppy disk drive Digital Equipment NY/EN 557
Floppy disk drive Digital Equipment Corp. WI/ZZ 941
Floppy disk drive Motorola Semiconductor Products MN/CS 451
Floppy disk ICOM CA/CS 105
Floppy disk storage North Star WI/IN 946
Floppy disk subsystem NY/ZZ 611
Floppy disk Sykes IN/EN 266
Floppy disk system DEC MA/CS 393
Floppy disk unit Sykes NY/PS 600
Flour mixtures: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Flow cell, recorder uv monitor, Isco AL/IN 16
Flow channel, Tecquipment IL/EN 203
Flow counter windowless Nuclear Instruments IN/PH 241
Flow meters heat FLEX-TRAN AR/IN 37
Flow open channel experimenta OR/EN 734
Flow related noise and control: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Flow sheet information processing system NY/EN 581
Flow theory tornado IA/IN 278
Flow visualization table Scott Armfield WY/EN 953
Flowmeter electromagnetic blood Carolina Medical Electronics IL/EN 234
Flowtran: Computer-aided process design and simulation NY/EN 606
Fluid circuit analog Technovate VA/EN 902
Fluid circuit system Scott Armfield IA/EN 280
Fluid flow: Mechanical engineering undergraduate laboratory NM/EN 541
Fluid mechanics engineers IA/EN 280
Fluid mechanics hydraulics, hydrology, experiments civil engineers VA/EN 902
Fluid mechanics laboratory engineering IL/EN 203
Fluid mechanics laboratory on open channel flow OR/EN 733
Fluid mechanics: Demonstrations and interdisciplinary laboratories in engineering science WY/EN 953
Fluid mechanics: Thermal fluids laboratory sequence VA/EN 903
Fluid mechanics: Transport processes laboratory for undergraduate engineers NY/EN 603
Fluid power systems laboratory equipment for technology students MI/EN 401
Fluids hydrostatics properties Technovate VA/EN 902
Fluids thermal laboratory VA/EN 903
Fluke John power supply GA/PH 181
Fluke portable calibrator 515A CA/EN 43
Fluke 8000A digital voltmeter CA/EN 88
Fluke 8020A digital multimeter CA/PH 77
Flume open channel Armfield Scott OR/EN 733
Flume Venturi OR/EN 733
Fluorescence assay biochemistry laboratory course CA/BZ 89
Fluorescence filters Zeiss WI/BZ 952
Fluorescence illuminator epi Zeiss WI/BZ 952
Fluorescence microscope Fluorestar American Optical NJ/BZ 522
Fluorescence microscope Fluorostar American Optical MA/BZ 399
Fluorescence spectra: Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
Fluorescence spectrophotometry: Basic chemical instrumentation with media assistance NY/CH 617
Fluorescent microscope American Optical NJ/BZ 519
Fluorescent microscope for laboratory work in microbiology and immunology WI/BZ 952
Fluorescent microscope transmitted Zeiss WI/BZ 952
Fluorescent sulfhydryl reagents: Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
Fluorestar fluorescence microscope American Optical NJ/BZ 522
Fluorimeter filter Turner NJ/CH 526
Fluorimeter Turner VA/CH 907
Fluorimeters: Teaching fluorescence assay in a biochemistry laboratory course CA/BZ 89
Fluorocolorimeter Aminco Bowman CA/BZ 89
Fluorometer recorder Turner NY/ZZ 573
Fluorometer Turner CA/ZZ 59 DC/PS 147 NY/BZ 566 NY/BZ 607
Fluorometric determination chlorophyll marine science NY/ZZ 573
Fluorostar fluorescence microscope American Optical MA/BZ 399
FM recording adaptor Vetter Co. ND/BZ 652
Food additives: Improvement in public understanding of chemicals in food NY/CH 559
Food additives: Nuclear magnetic resonance spectrometry in undergraduate teaching and research IN/CH 248
Food analysis: Scientific equipment for foods and nutrition laboratory instruction CA/ZZ 59
Food analysis: Undergraduate laboratory instruction in nutritional science NY/BZ 566
Food and nutrition: Interactive study group instructional strategy for nutritional science TX/BZ 857
Food chemicals public understanding NY/CH 559
Food engineering technology laboratory for four year program KS/EN 300
Food science: Instructional scientific equipment program DE/IN 146
Food science: Scientific equipment for foods and nutrition laboratory instruction CA/ZZ 59
Food science, nutrition, dietetics laboratory IN/ZZ 255
Food technology: Improvement in public understanding of chemicals in food NY/CH 559
Foods and nutrition laboratory instruction equipment CA/ZZ 59
Foods quality laboratory computer OR/ZZ 735
Force conductor balance Ealing TX/PH 846
Force transducer Biocom Gilson WA/BZ 922
Forensic science laboratory equipment CT/ZZ 139
Forest science instruction timesharing computing WI/ZZ 941
Forest technician: Purchase computing equipment for Wanakena campus NY/ZZ 611
Forestry remote sensing IL/EZ 220
Forestry: Environmental studies program field equipment project NC/ZZ 651
Forestry: Land surveying measurements and computations laboratory LA/EN 338
Formal reasoning: Improvement of biological science for the elementary teacher AZ/BZ 24
Formal reasoning: Inquiry method and Piagetian approach to general college chemistry CO/CH 128
Formal thinking: Inquiry role approach for teaching physical science NE/PH 496
Formal thought: Laboratory remedial chemistry using structured open ended inquiry formats CO/CH 109
Formatter logic analyzer Tektronix KY/EN 327 MO/EN 486
Fortran laboratory software Digital Equipment OH/CH 683
Fortran software: Computer interface to upgrade undergraduate chemistry and physics laboratories NY/PH 595
FORTRAN structured computer science NY/CS 605
Fossil fuels: Combustion and solution calorimetry in undergraduate organic chemistry WV/CH 929
Fossil preparation equipment OR/BZ 736
Fossil storage cabinets OR/BZ 736
Fossil vertebrates undergraduate instruction OR/BZ 736
Fourier synthesizer Pasco model 9307 CA/PH 81
Fourier system optical Space Optics UT/PH 881
Fourier transform spectroscopy: Modern optics and laser physics laboratory for four-year college WI/PH 931
Four-machine model electric power system for power engineering laboratory MO/EN 483
Fox alphanumeric terminals FL/PS 165
Foxboro Co. 2E69F current to air transducer 3744311-12 MO/EN 488
Fraction collector automatic Isco AL/IN 16
Fraction collector BioRad Co. MI/BZ 419
Fraction collector circular ISCO LA/CH 344
Fraction collector linear ISCO Golden Retriever IN/BZ 243
Fraction collector LKB ID/CH 197 MN/CH 456
Fraction collector LKB Instruments WI/IN 946
Fragmentation patterns: Mass spectrometry for undergraduates using a Varian EM-600 TX/CH 863
Frame 12011 rod Stoelting Co. NY/PS 588
Frames, Reaction compression tester PA/EN 775
Freas low temperature B.O.D. cabinets 815 UT/BZ 882
Freas precision incubator 31213 SC/BZ 800
Freeze dryer Labconco PA/BZ 788
Freeze dryer Vertis KS/EN 300
Freeze dryer Virtus Engineering KY/PS 312
Freeze drying: Food engineering technology laboratory for four year program KS/EN 300
Freezer Revco LA/BZ 337 NJ/BZ 519
Freezing microtomes American Optical PA/PS 755
Frequency counter Heath MI/PS 414
Frequency counter Tektronix TX/PH 842 VA/EN 909
Frequency modulation: Videotaped FM simulations in physiology laboratory for health science ND/BZ 652
Frequency spectrum measurement CA/EN 78
Freshman engineering demonstrations: Automated industrial facility simulator laboratory IN/EN 254
Freshman motivation: Color video tapes made for engineering courses OK/EN 714
Freshman non-calculus introductory self-paced electronics laboratory AR/PH 36
Frohse human anatomical charts NY/BZ 571
Front surfaced mirror Byron Ellis Assoc. WI/PH 939
Frozen dessert: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Fruits: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Fryan A-V Equipment Co. headphones MX-300 OH/CH 673
Fuel analysis: Combustion and solution calorimetry in undergraduate organic chemistry WV/CH 929
Fuel cell Engelhard GA/PH 181

Full wave integrators Teca MA/ZZ 370
Fume hood SH4004 NC/IN 638
Function generator Hewlett Packard IL/PH 210 MI/IN 423
Function generator Interstate Electronics Corp. KS/EN 304
Function generator Krohn Hite AZ/EN 25
Function generator Pasco TN/PH 820
Function generator Tektronix OK/EN 721 TX/PH 842 VA/EN 909
Function generators Interstate Electronics Corp. KS/EN 303
Fundamental science curriculum MI/IN 405
Furnace belt BTU Engineering PA/EN 761
Furnace heat treating Lindberg WY/EN 953
Furnace muffler Blue M SC/EN 807
Future Data EPROM programmer personality module MO/EN 484
Future Data microemulator 8080 MO/EN 484
Future Data microsystem 10 model 8080 MO/EN 484
Futures projection: Non-science majors courses in energy, environment, chemical technologies NY/CH 548
F-100 electron impact ionization Finnigan CA/CH 62
Gaertner holography system R-530 WI/PH 931
Gaertner R410 rectangular flatbed optical bench MO/PH 477
Gal. refrigerated MD/BZ 359
Game computer income distribution, economics TX/SZ 854
Gaming principles: Interactive computer game on principles of income distribution, economics TX/SZ 854
Gamma counter Ames Co. NC/ZZ 643
Gamma counter for student instruction in radioimmunoassay NC/ZZ 643
Gamma ray spectrometer portable Geometrics Exploranium HI/EZ 189
Gamma spectrometry and time analysis for nuclear detection laboratory GA/EN 179
Gamma spectrometry system Ortec NJ/IN 534
Gammacord Ames Co. gamma counter NC/ZZ 643
Gas analyzer infrared carbon dioxide Intertech Corp. IN/ZZ 251
Gas chromatograph Gow Mac MA/IN 397 NY/EN 603 TX/CH 840 VA/CH 907
Gas chromatograph Hewlett Packard OH/CH 702 PA/EN 776
Gas chromatograph mass spectrometer system CA/CH 62
Gas chromatograph mass spectrometer system for undergraduate chemistry laboratories CA/CH 62
Gas chromatograph Perkin Elmer MA/CH 380
Gas chromatograph Varian ID/EN 196 IL/EN 226 NY/IN 578
Gas chromatograph 66002N Cenco AL/CH 8
Gas chromatography electron capture environmental chemistry laboratory NY/IN 578
Gas discharge: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Gas dynamics: Thermal fluids laboratory sequence VA/EN 903
Gas inert glassware system Ace Glass Inc. MN/CH 441
Gas liquid chromatography: Slide-tape assisted self-paced biochemistry laboratory for undergraduate women MA/BZ 381
Gas proportional counter Technical Associates MO/PH 479
Gas sampler RAC IN/EN 267
Gas sampling adapter Varian TX/CH 863
Gas sampling adaptor for EM-600 KY/CH 316
Gas turbine and digital data acquisition system OK/EN 730
Gas turbine Cussons two shaft OK/EN 730
Gasometer Collins MS/BZ 471
Gating circuits: Microprocessor laboratory paralleling a computer lecture course VA/CS 913
Gauge controls thermocouple Veeco Instruments GA/PH 181
Gaussian noise: Undergraduate communication, electroacoustic, and environmental noise control laboratory ME/EN 351
Gaussmeter Ealing CA/PH 79
GCA and McPherson EU-700 monochromator CO/CH 116
GCA Precision Scientific Incubators, low temperature Freas model 815 MN/BZ 439
GC: Basic chemical instrumentation with media assistance NY/CH 617
Gel electrophoresis apparatus disc Buchler IN/BZ 243
Gel electrophoresis apparatus Sargent Welch OK/CH 710
Gel electrophoresis vertical E-C Apparatus PA/BZ 788
Gel permeation chromatography in physical chemistry laboratory MN/CH 450
Gel scanner Gilford 2520 model 250 spectrophotometer AL/BZ 3
Gelman densitometer DCD 16 IN/ZZ 255
Gelman densitometer DCD-16 VA/CH 898
Gelman electrophoresic chamber 51211 and power supply 38206 NY/BZ 570
Gelman electrophoresis apparatus Sepratek NJ/BZ 522
Gelman electrophoresis chamber IN/BZ 243
Gelman electrophoresis chamber 51156 VA/CH 898
Gelman electrophoresis system, Sepra Tek 51155 and power supply 38206 FL/BZ 151
Gelman immunodiffusion and immunoelectrophoresis kits VA/BZ 905
Gelman Instrument Co. DCD-16 digital computing biomedical densitometer CA/BZ 69
Gelman power supply 38520 VA/CH 898
Gelman sample applicator S1167 VA/CH 898
Gen Rad portable recorder 1985 MO/ZZ 482
Gen Rad sound level meter and analyzer 1982 MO/ZZ 482
Geneal astronomy observatory GA/PH 186
General astronomy laboratory: Equip and assemble a solar laboratory CO/ZZ 120
General biology and independent studies MI/BZ 415
General biology: Procurement of physiograph for human anatomy and physiology laboratories CO/BZ 107
General biology: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
General chemistry course improvement TX/CH 844
General chemistry courses equipment enhancement AL/CH 8
General chemistry: Laboratory remedial chemistry using structured open ended inquiry formats CO/CH 109
General education: Investigative laboratories in microbiology for non-science majors IL/BZ 230
General Electric Co. steam superheater JG-3807 OK/EN 717
General Electric PJ5000 television projector IN/CS 245
General Electric 35A 800V silicon controlled rectifiers MA/EN 398
General graphics system: Educational uses of computer graphics CA/CS 102
General Radio oscillator and analyzer GA/PH 181
General Radio 1657-9700 Digi-Bridge RLC impedance bridge HI/EZ 189
General science: Improvement of teaching in science, mathematics, and social sciences IL/IN 205
General statistics computer-based laboratory AL/MA 7
General, molecular, and population genetics laboratory improvement MA/BZ 386
Generator dual function Pasco WI/PH 944
Generator function Hewlett Packard IL/PH 210 MI/IN 423
Generator function Interstate Electronics Corp. KS/EN 304
Generator function Krohn Hite AZ/EN 25
Generator function Pasco TN/PH 820
Generator function Tektronix OK/EN 721 TX/PH 842 VA/EN 909
Generator monochrome special effects Panasonic AL/PS 17
Generator ozone Horizon Ecology VA/EN 895
Generator protection: Laboratory simulation of electric power transmission systems TN/EN 822
Generator random noise Bruel and Kjaer ME/EN 351
Generator rf signal Logimetrics NJ/PH 518
Generator sine wave B and K NY/EN 625
Generator steam Clayton Co. OK/EN 717
Generator time base MFE X-Y recorder AR/PH 40
Generators function Interstate Electronics Corp. KS/EN 303
Generator, audio signal Lafeyette Co. NY/PS 588
Generator, tone burst custom built TX/EN 852
Genetic approach: Modules in history of mathematics NY/MA 565
Genetics human filmloop program Milner Fenwick LA/BZ 337
Genetics integrated two-course sequence LA/BZ 337
Genetics laboratory biology majors MI/BZ 419
Genetics organisms tissues constant-environment chambers MN/BZ 439
Genetics: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Genetics: Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Genetics, microbiology cell biology, research SC/BZ 800
Genetics, modules general zoology IL/BZ 222
Genetics, physiology microbiology, laboratory PA/BZ 789
Genrad Strobotacs 1531-AB NY/EN 575
Geographic maps: Computer assisted introduction to thematic maps for beginning students TN/EZ 830
Geography computer cartography IA/SZ 290
Geography locational analysis IA/SZ 291
Geography soil course AZ/EZ 27
Geography students field experience CA/SZ 54
Geography: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Geography: Interdisciplinary program in powder X-ray diffraction IL/EZ 236
Geography: Interpretation of satellite imagery by computer quantitative methods NY/EZ 614
Geography: Student interpretation of landsat imagery NC/EZ 649
Geologic mapping: Undergraduate instruction in photogeology CA/EZ 87
Geology computer literacy MA/EZ 395
Geology corriculum x-ray diffractometer NY/EZ 561
Geology field course Montana IN/EZ 246
Geology geophysics Worden gravity meter KY/EZ 330
Geology laboratory improvement OK/EZ 724
Geology physical law enforcement studies OH/EZ 679
Geology thin-sectioning laboratory equipment for four-year college MA/EZ 382
Geology X-ray diffraction MA/EZ 396
Geology: Aquatic ecology for liberal arts undergraduate women VA/IN 901
Geology: Field vehicle for field sciences ID/IN 190
Geology: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Geology: Interdisciplinary program in powder X-ray diffraction IL/EZ 236
Geology: Land surveying measurements and computations laboratory LA/EN 338
Geology: Multidisciplinary laboratory course for science majors CA/IN 103

Geology: Multidisciplinary science study project center for two-year college OR/IN 743
Geology: Seismic equipment for introductory exploration geophysics MI/EZ 432
Geology: Student interpretation of landsat imagery NC/EZ 649
Geology, field experience FL/IN 159
Geology, physics, chemistry x-ray diffraction WI/IN 951
Geometric and physical concepts: New Optics Laboratory Course for Non-Physicists MA/PH 374
Geometric modeling: Curriculum in interactive graphics favoring manufacturing applications NM/CS 542
Geometrics Exploranium GR-310 portable gamma ray spectrometer HI/EZ 189
Geometrics G-826A and G-836 Unimag proton precession magnetometers HI/EZ 189
Geomorphology: Undergraduate instruction in photogeology CA/EZ 87
Geophones Walker Hall Sears MI/EZ 432
Geophysical education using a signal stacking seismic system OH/EZ 680
Geophysics exploration equipment HI/EZ 189
Geophysics exploration seismic equipment MI/EZ 432
Geophysics geology Worden gravity meter KY/EZ 330
Geophysics instruction instrumentation CA/EZ 51
Geophysics program equipment purchase OH/EZ 693
Geotell telluric current unit (custom made) CA/EZ 51
Geothermal: Scientific exploration equipment for undergraduate geophysics instruction HI/EZ 189
Geo-coding: Computer cartography in undergraduate geography IA/SZ 290
Gerbrands Co. clock counter KY/PS 321
Gerbrands Co. Harvard tachistoscope KY/PS 321
Gerbrands Co. projection tachistoscope G1175 AR/PS 38
Gerbrands cumulative recorder TN/PS 834
Gerbrands cumulative recorders MS/PS 469
Gerbrands programming equipment G-3100-G-4670 NC/PS 640
Gerbrands 2-channel tachistoscope: Advanced computer assisted information processing laboratory for psychology majors PA/PS 765
Germanium gamma spectroscopy system Ortec NY/PH 592
Germinator seed Burrows MN/BZ 459
Gerontology: Experimental design for physiology concept reinforcement and skill acquisition CA/BZ 75
Gerontology: Human biology for human services personnel NH/BZ 510
Ge(Li) detector Canberra cryostat preamplifier GA/EN 179
Gibson student respirometer SD/BZ 813
Giddings hydraulic soil coring and sampling machine GSRP-S-M IN/ZZ 251
Gilford automatic cuvette positioner 2451 MA/BZ 381
Gilford model 250 uv-vis recording spectrophotometer AL/BZ 3
Gilford strip chart recorder 6050 MA/BZ 381
Gilford uv-visible spectrometer 250 VT/CH 884
Gilford uv-visible spectrophotometer 250 MA/BZ 381
Gilford 2520 gel scanner for model 250 spectrophotometer AL/BZ 3
Gill net 150 by 6 ft. CA/BZ 66
Gilson Biocom force transducer 1030 WA/BZ 922
Gilson differential refrigerated respirometer model GRP-14 CA/BZ 82
Gilson differential respirometer IGRP14 AR/IN 34
Gilson GRP-14 differential respirometer ME/BZ 348
Gilson G14 respirometer MI/BZ 415
Gilson microfractionator FC-100 VT/CH 884
Gilson microfractionator FC-80 NY/IN 580
Gilson polygraph recorder ICT-5H WA/BZ 922
Gilson recording channel IC-MP WA/BZ 922
Gilson respirometer IGRP14 MN/BZ 446
Glass knife breaker DuPont Sorvall VA/BZ 905
Glassware system inert gas Ace Glass Inc. MN/CH 441
Globe star Farquhar SD/PH 811
Golden Retriever ISCO linear fraction collector IN/BZ 243
Goldfisch fat extraction 6-unit apparatus CA/ZZ 59
Goniometer diffractometer Phillips WI/IN 951
Goniometer Vertical Diffraction Philips MA/EZ 396
Gould Brush four channel strip chart recorder CA/EN 57
Gould Brush 220 dual channel recorder ND/BZ 655
Gould Inc. chart recorders and medical instruments 2400 IL/EN 234
Gould Inc. OS245A dual trace oscilloscope IL/PH 210
Gow Mac gas chromatograph series 150 MA/IN 397
Gow Mac gas chromatograph 64-750 TX/CH 840
Gow Mac gas chromatograph 69-150 VA/CH 907
Gow Mac gas chromatograph 69-550 NY/EN 603
Gow Mac liquid chromatograph 80-500 CA/CH 50
Gow-Mac liquid chromatograph 80-500 MA/CH 380
Gradient analysis assembly Isco AL/IN 16
Gradient sucrose centrifuge rotor IEC AL/IN 16
Graf pen digitizer IA/SZ 290
Grain moisture tester Motomco IN/ZZ 251
Graphic communications computer aided lessons architecture students AZ/IN 28
Graphic computer Tektronix Inc. OR/IN 748
Graphic computer terminal BASIC Tektronix NY/BZ 558
Graphic computer terminal Tektronix MA/CH 389
Graphic computing system Tektronix OH/PH 678
Graphic display terminal tektronix CO/EN 121
Graphic display: Computer modules for freshmen biology labs NY/BZ 558
Graphic display: Senior laboratory in applied acoustics measurements with minicomputer assistance IL/PH 219
Graphic modules computer mathematics instruction FL/MA 162
Graphic plotter Hewlett Packard KS/ZZ 299
Graphic tablet Tektronix MN/EN 454 OH/BZ 666
Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Graphic terminal kits Intercolor TX/PS 860
Graphic terminal Tektronix KY/EZ 329 OH/BZ 666
Graphic terminals Tektronix OR/EN 732
Graphical communication: Computer graphics for instructional use MN/EN 454
Graphics capability computer physics FL/PH 154
Graphics computer architectural technicians WI/ZZ 938
Graphics computer engineering curriculum OH/CS 697
Graphics computer engineering education WI/EN 947
Graphics computer engineering freshmen MS/EN 464
Graphics computer instructional MN/EN 454
Graphics computer mechanical design TX/EN 865 TX/EN 868
Graphics computer physical science KS/CH 294
Graphics computer simulation construction operations CA/EN 83
Graphics computer spectrum analyzer CA/ZZ 64
Graphics computer structural dynamics NY/EN 586
Graphics computer structural engineering VA/EN 894
Graphics computer system Terak WI/EN 947
Graphics computer Tektronix ND/CH 656
Graphics computer television chemistry MI/CH 430
Graphics computer terminal Hewlett Packard CA/CH 94
Graphics computer terminal Tektronix IL/IN 213
Graphics computer terminal 4006-1 Tektronix AL/MA 6
Graphics computer TV lecture classes WI/ZZ 943
Graphics computing system Tektronix MI/MA 418
Graphics display Digital Equipment Corp. NM/CS 539
Graphics feature for Ontel A4000 APL/ASCII video display terminal CT/MA 145
Graphics interactive manufacturing applications NM/CS 542
Graphics minicomputer plotter Tektronix IL/PH 219
Graphics plotter Tektronix UT/PH 883
Graphics simulations, computer physics FL/PH 156
Graphics subsystem Digital Equipment Corp. CA/EN 84
Graphics system Tektronix OH/CS 697
Graphics terminal Anderson Jacobson MI/MA 433
Graphics terminal computer NY/PH 560
Graphics terminal DEC PA/CH 783
Graphics terminal Digital Equipment OH/CH 683
Graphics terminal Digital Equipment Corp. MA/PH 377 WI/ZZ 938
Graphics terminal Tektronix CA/CS 102 FL/PH 154 GA/IN 176 KS/BZ 301 MD/MA 357 MI/MA 418 OH/PH 674 OK/IN 722 OR/PH 742 TX/EN 851 VA/EN 894
Graphics terminals hard copy Tektronix NY/MA 622
Graphics terminals Hewlett Packard CA/IN 42
Graphics terminals: Real time computer aided laboratories in psychology and biology TX/IN 862
Graphics: Computer assisted mechanical systems analysis and synthesis laboratory NH/EN 513
Graphics: Computer augmented general physics for undergraduates OR/PH 742
Graphics: Computer generated phase diagrams in thermodynamaics education IA/EN 279
Graphics: Computer-based PLATO instruction in chemical engineering IL/EN 231
Grason Stadler 1713 audiometer AZ/ZZ 23
Grass Co. stimulator MD/BZ 365
Grass Instrument Co. audiomonitor AM-7 OK/PS 728
Grass Instrument Co. photostimulator PS-22 OK/PS 728
Grass Instrument electronic stimulator SMD9 OH/BZ 696
Grass Instrument portable polygraph 79-3 IL/PS 223
Grass Instruments audio monitor OH/PS 688
Grass Instruments model 7 series polygraph AZ/BZ 32
Grass Instruments preamplifiers NM/BZ 540
Grass Instruments stimulator NM/BZ 540
Grass P16 a.c.-d.c. microelectrode preamplifier IL/BZ 215
Grass P-15 amplifier CT/BZ 140
Grass SD9 square wave stimulator ME/BZ 348
Grass stimulator FL/IN 167
Grass stimulator SD9 NE/BZ 495
Grass S44 stimulator ND/BZ 655
Grating monochromator Schoeffel NM/EN 541
Grating spectrometer McPherson RI/EN 791
Gravity convection incubator Blue M Electric Co. MI/BZ 420
Gravity convection incubators Blue M MA/BZ 386
Gravity meter matching funds OH/EZ 706
Gravity meter Scintrex Ltd. OH/EZ 706
Gravity meter Worden OH/EZ 693
Gravity meter Worden geology geophysics KY/EZ 330
Gravity meter Worden Texas Instruments KY/EZ 330
Grayson Stadler digital printer counter NC/PS 636
Grayson Stadler 1200 series solid state logic auditory stimulator MA/PS 383

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Grinder sonic oscillator Brinkman Polytron AL/IN 16
Grinder thin section Hillquist MA/EZ 382
Group theory: Computer approach to abstract algebra MN/MA 457
Growth chamber Environator Percival SD/BZ 813
Growth chamber Environmental IN/ZZ 251
Growth chamber Percival LA/BZ 337
Growth chamber plant PA/BZ 780
Growth chamber plant Percival Mfg. MN/BZ 446
Growth chamber plant Sherer MN/BZ 459
Growth control plant technical agriculture MN/BZ 459
Growth dynamics: Improvement of laboratory instruction in microbiology, genetics, and physiology PA/BZ 789
Grozier Technical Systems miniature impulse computer GTS-30 ME/EN 351
Guatemala: Self paced video and computer assisted instruction in ethnography CA/SZ 93
Guided design in interdisciplinary introductory college science program NJ/IN 529
Guided design projects for physical science course WV/IN 927
Guided design: Design projects for freshman engineering KS/EN 310
Gyrascope air student Ealing TX/PH 846
Gyro tester De Laval KS/EN 300
Gyrotary waterbath shaker PA/BZ 789
Hach Chemical fecal coliform kit B1217A NC/ZZ 651
Hach Chemical Water quality kit DRE-1A NC/ZZ 651
Hacker Instruments polarizing microscope 610 OK/EZ 724
Hacker Instruments stereoscopic microscope 271 OK/EZ 724
Hall effect in semiconductors: Semiconductor material and device project laboratory stressing date validation NY/EN 628
Halogen tungsten fluorescence lamphouse NY/BZ 609
Hamilton Avnet Co. MMS1116 16K semiconductor memory MO/EN 488
Hamilton 61J14 map storage cabinet CA/SZ 104
Hampden Engineering Corp. electric machinery equipment KY/EN 322
Handicapped: Basic principles applied radiation physics NY/PH 599
Handicapped: Instructional scientific equipment in chemistry for minority students MD/CH 356
Handicapped: Perceptual laboratory for technical students NY/PS 588
Handicapped: Practical electronic technology laboratory for undergraduate college students MI/IN 423
Handicapped: Scientific equipment for speech and hearing science undergraduate instruction AZ/ZZ 23
Handicapped: Self paced minicourses in biology for the general student VA/BZ 896
Handicapped: Teaching acoustics and speech with real time spectrum analyzers AR/PH 40
Handicapped: Visual and tutorial general biology for deaf students DC/BZ 149
Hands-on approach to introductory physiology IL/BZ 198
Hands-on introduction to computer graphics for engineering freshmen MS/EN 464
Hand-held calculator NY/PH 560
Hand-held calculators for courses in statistical methods MT/MA 493
Hard copy printer Tektronix Inc. OR/IN 748
Hard copy terminal Diablo OH/EZ 693
Hard copy terminal Digital DECWriter VA/EN 894
Hard copy unit Tektronix KS/CH 294 KY/EZ 329 MN/EN 454
Hardcopier Tektronix MI/MA 418
Hardcopy terminal DecWriter TN/SZ 828
Hardcopy unit 4631 Tektronix AL/MA 6
Hardware computer microcomputer systems laboratory IN/EN 266
Hardware software computer science instruction NV/CS 504
Hardware software laboratory computer MN/CS 451
Hardware software microcomputer minicomputer laboratory MA/CS 393
Hard-copy terminal Digital Equipment Corp. CO/CS 112
Harris cryostat OH/PS 688
Harris minicomputer 200 OR/PH 742
Harshaw Co. 2000C TLD system IN/PH 242
Harvard Apparatus chart mover 480 OH/BZ 696
Harvard Apparatus physiograph SD/BZ 813
Harvard electronic stimulator 344 NJ/BZ 530
Harvard high gain ac/dc amplifier 355 NJ/BZ 530
Harvard mechanical module system 1052 NJ/BZ 530
Harvard tachistoscope Gerbrands Co. KY/PS 321
Harvesting fish: Development of modules on current mathematical applicstions MD/MA 358
Haskell chromatography pump 27500-4 VA/CH 907
Hatchery management: Instructional scientific equipment program RI/BZ 794
Head phones monitor Pioneer WI/PH 944
Headphones Fryan A-V Equipment Co. OH/CH 673
Health and disease: Optional activities for undergraduate animal biology students OK/BZ 719
Health human anatomy biology LA/BZ 333
Health occupations majors: Procurement of physiograph for human anatomy and physiology laboratories CO/BZ 107
Health physics degree program MO/PH 479
Health physics laboratory equipment purchase TN/PH 824
Health professions: Learning concepts of therapeutic exercise through specialized laboratory experiences MA/ZZ 370
Health related physics laboratory for allied health students GA/PH 183
Health Schlumberger Power Supply SP-2710 IL/PH 210
Health science chemistry laboratory instrumentation OK/CH 710
Health science majors: Videotapes and worksheets for alternative remedial instruction in chemistry CA/CH 72
Health science physiology laboratory videotaped FM simulations ND/BZ 652
Health sciences anatomy physiology laboratory TX/BZ 837
Health sciences human body physics laboratory IL/PH 201
Health science: Gamma counter for student instruction in radioimmunoassay NC/ZZ 643
Health science, biology, laboratory instrumentation PA/ZZ 766
Health students ecology physiological environmental ME/BZ 348
Health students physics laboratory GA/PH 183
Health technologies mathematics VA/MA 910
Health undergraduate course CA/ZZ 96
Hearing disability: Visual and tutorial general biology for deaf students DC/BZ 149
Hearing science laboratory Starkey AZ/ZZ 23
Hearing science laboratory Starkey Laboratories MI/PS 414
Hearing science speech scientific equipment AZ/ZZ 23
Heart rate: Simultaneous recording of three physiological parameters in vertebrates NY/BZ 576
Heart simulator mechanical Pasco TN/PH 820
Heart sounds: Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Heat exchanger Scott Engineering NY/EN 603
Heat exchanger: Computer-aided undergraduate chemical engineering laboratory MO/EN 488
Heat flow meters FLEX-TRAN AR/IN 37
Heat storage: Solar thermal student laboratory and classroom demonstration CO/PH 123
Heat transfer system radiation Scott Engineering NY/EN 603
Heat transfer: Mechanical engineering undergraduate laboratory NM/EN 541
Heat transfer: Solar thermal student laboratory and classroom demonstration CO/PH 123
Heat transfer: Thermal fluids laboratory sequence VA/EN 903
Heat transfer: Transport processes laboratory for undergraduate engineers NY/EN 603
Heat treating furnace Lindberg WY/EN 953
Heat treatment metallography laboratory SC/EN 807
Heath computer 11 MN/CH 442
Heath Co. laboratory breadboard ETW-3300 MI/IN 423
Heath Co. power supply 2717 MI/BZ 419
Heath Co. 6800 microprocessor ET-3400 trainer kit MO/EN 486
Heath laboratory breadboard ET-3300 AR/PH 36
Heath microprocessor course EE-3401 AR/PH 36
Heath oscilloscope SO-4550 IA/PH 293
Heath Schlumberger strip chart recorder SR-205 IL/PS 223
Heath self-instruction electronic courses EE-3101, 3102, 3103, 3104, 3201 AR/PH 36
Heath SM-4100 frequency counter MI/PS 414
Heath SO-4550 dual trace oscilloscope MI/PS 414
Heath strip chart recorder NM/BZ 540
Heath strip-chart recorder SR-205 NJ/PH 518
Heath trainer 3400 AR/PH 36
Heath 0-400 VDC general purpose power supplies MA/BZ 386
Heathkit analog signal recorder MA/PS 383
Heathkit ETW-3100 transistor trainer PA/PH 773
Heathkit microcomputer system H-11 UT/PH 883
Heathkit paper tape reader punch H10 NC/EN 645
Heathkit terminal H-9 UT/PH 883
Height analyzer pulse Tracor Northern MN/PH 436
Helena Labs immunoelectrophoresis apparatus: Microbiological laboratory equipment for four-year college NJ/BZ 519
Helios planetarium Fisher Scientific IL/IN 229
Heliostat MA/ZZ 371
Heliostat with 12in. cervit mirror Carson Astronomical Instruments CO/ZZ 120
Hematology: Physiology laboratory enrichment for non-science majors NJ/BZ 530
Hemispherical dome screen Highland Products Corp. AR/ZZ 41
HeNe laser C. W. Radiation WI/PH 939
HeNe laser Metrologic PA/PH 773
Herbach and Rademan thermoelectric cooling module NM/BZ 540
Heredity: Self paced minicourses in biology for the general student VA/BZ 896
Hewlett Packard audio oscillator NC/PS 636
Hewlett Packard automatic data acquisition system 3052A TX/EN 873
Hewlett Packard desk top computer HP9815A NY/EN 581
Hewlett Packard digital multimeter 3469B NY/EN 603
Hewlett Packard digital voltmeter 3476A MI/IN 423
Hewlett Packard dual channel oscilloscope 1220 MI/IN 423
Hewlett Packard d.c. defibrillator and trainer 7802D, 4653/4 IL/EN 234
Hewlett Packard electronic counter NM/EN 541
Hewlett Packard function generator 3311A MI/IN 423
Hewlett Packard gas chromatograph 5722A OH/CH 702
Hewlett Packard graphic plotter KS/ZZ 299

Hewlett Packard graphics computer terminal 2648A CA/CH 94
Hewlett Packard graphics terminals 2648A CA/IN 42
Hewlett Packard HP21MX microprogrammable computer CO/CS 112
Hewlett Packard instrumentation tape recorder 3960A IL/BZ 215
Hewlett Packard LCR meter 4332A NY/EN 628
Hewlett Packard logic lab 5035T IN/EN 254
Hewlett Packard microwave laboratory equipment FL/PH 170
Hewlett Packard optical scan card reader KS/ZZ 299
Hewlett Packard oscillator HP 204D TX/EN 852
Hewlett Packard oscillographic recorder 7402A KY/EN 322
Hewlett Packard oscilloscope 1201A CA/EN 78
Hewlett Packard power amplifier HP 467A TX/EN 852
Hewlett Packard preamplifier HP 462A TX/EN 852
Hewlett Packard programmable calculator 9815 with 2 output options GA/EN 179
Hewlett Packard programmable calculators HP25, HP67, HP97 MT/MA 493
Hewlett Packard spectrum analyser 3580A CA/PH 81
Hewlett Packard strip chart recorder OH/PS 688
Hewlett Packard strip chart recorder with 2 pens CO/EN 126
Hewlett Packard strip chart recorder 71000B NY/EN 603
Hewlett Packard tranducers TDCDT-1000 CO/EN 126
Hewlett Packard triple output power supply 6236B MI/IN 423
Hewlett Packard X-Y plotter 7015A KY/EN 322
Hewlett Packard x-y plotter 7015A-002 OH/EN 669
Hewlett Packard x-y recorder 7035 OR/CH 745
Hewlett Packard 1441 storage oscilloscope AZ/ZZ 23
Hewlett Packard 1600A logic analyzer KY/EN 327
Hewlett Packard 3311A function generator IL/PH 210
Hewlett Packard 3380A reporting integrator ID/EN 196
Hewlett Packard 3465A digital multimeter NY/EN 628
Hewlett Packard 3580A spectrum analyzer IL/PH 219
Hewlett Packard 5732 gas chromatograph PA/EN 776
Hewlett Packard 6205B dual DC power supply NY/EN 628
Hewlett Packard 6205B power supply CA/EN 88
Hewlett Packard 67 calculator VA/BZ 904
Hewlett Packard 8.5in. by 11in. recorder 7034A KS/PH 298
Hewlett Packard 97 calculator VA/BZ 904
He-Ne laser Metrologic SD/PH 819
He-Ne lasers Spectra Physics RI/EN 791
Hickoc EF-15 electrons and fields system IL/PH 207
Hickok logic trainer K-80 AR/CS 35
Hickok memory trainer K-92 AR/CS 35
High altitude photography: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
High altitude photography: Remote sensing for forestry students IL/EZ 220
High frequency electronics: Improvement of laboratory experiences in electronics and electromechanical technology OK/EN 721
High performance liquid chromatography detector Waters Associates MI/CH 412
High performance liquid chromatography in undergraduate courses and research MI/CH 412
High performance liquid chromatography pump Waters Associates MI/CH 412
High performance liquid chromatography solvent programmer Waters Associates MI/CH 412
High pressure liquid chromatograph Waters NY/CH 556
High pressure liquid chromatography NY/CH 556
High pressure liquid chromatography teaching tool for undergraduate chemistry IN/CH 263
High pressure liquid chromatography waters Associates MA/CH 373
High school short courses: Senior level environmental air pollutants sampling and monitoring course IN/EN 267
High speed refrigerated centrifuge in the modern biochemical laboratory ID/IN 192
High volume sampler RAC IN/EN 267
Highland Products Corp. hemispherical dome screen 16ft. diameter AR/ZZ 41
Hightower Co. DECWriter II MS/MA 463
Hillquist thin section grinder MA/EZ 382
Hillquist thin section machine 1005 MA/EZ 382
Hillquist 14in. slab saw RF-14 MA/EZ 382
Histofluorescence equipment psychology KY/PS 312
Histological preparations: Laboratory assisted biology and chemistry for two-year college NC/IN 638
Histology embryology premedical predental LA/BZ 341
Histology: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Histology: Laboratory courses in cell biology with emphasis on immunology VA/BZ 905
Historical and experimental instruction: Development of undergraduate history of science course and laboratory MN/IN 452
Historical geology: Geology laboratory improvement OK/EZ 724
Historical human impact: Environmental studies program field equipment project NC/ZZ 651
History economic VA/SZ 892
History mathematics modules NY/MA 565
History of science: Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
History of science: Teaching philosophy of science with a laboratory IL/ZZ 206
History science laboratory MN/IN 452
History: Modules in history of mathematics NY/MA 565
History: Multidisciplinary science study project center for two-year college OR/IN 748
Hitachi Perkin Elmer NMR spectrometer R-24-B IN/CH 248
Hitachi Perkin Elmer recorder, AL/CH 10
Hitachi Perkin Elmer spectrophotometer, AL/CH 10
Hitachi portable production camera GI-FP3030A SC/BZ 796
Hitachi uv visible spectrophotometer model 100 CA/IN 95
Hitachi uv-vis spectrophotometer 100-2008 VA/BZ 905
Hite Krohn function generator AZ/EN 25
Hoefer Scientific photosynthetic chamber IN/ZZ 251
HOK magnet wire Westinghouse TN/EN 822
Holder plate Byron Eliis Assoc. WI/PH 939
Holographic laboratory equipment engineering technology WI/PH 939
Holographic optical elements: Optical information processing experiments for undergraduates TX/EN 859
Holographic system Saertner UT/PH 881
Holographic table Byron Ellis Assoc. WI/PH 939
Holography laboratory Metrologic MO/PH 477
Holography system Gaertner WI/PH 931
Holography teaching kit Metrologic PA/PH 773
Holography: Optical information processing experiments for undergraduates TX/EN 859
Holography: Senior undergraduate physics laboratory improvement MO/PH 477
Home computer Radio Shack MA/IN 397
Home economics: Human biology for human services personnel NH/BZ 510
Home economics: Scientific equipment for foods and nutrition laboratory instruction CA/ZZ 59
Homework computer-assisted data skills sociology VA/SZ 900
Hominid fiberglass casts physical anthropology TX/SZ 850
Homogenizer tissue Fisher PA/ZZ 766
Homogenizer tissue Virtis OR/BZ 731
Homogenizer Tissumizer MO/IN 480
Homogenizer Vir-Tis CA/BZ 69
Honeywell Electronik recorder 196 NE/BZ 499
Honeywell Inc. 2 pen strip chart recorder OK/EN 729
Honor students: Environmental project oriented field and laboratory science classes CA/EZ 52
Honors course: Non-science majors courses in energy, environment, chemical technologies NY/CH 548
Honors department: Sensory basis of art and human communication FL/IN 172
Honors program in biopsychology NJ/IN 536
Honors program in life science ethics NJ/IN 537
Honors students ascent man non-science OH/IN 704
Hood biohazard Contamination Control DE/IN 146
Hood fume NC/IN 638
Hood laminar flow Biogard MA/BZ 399
Hood laminar flow BioQuest OK/BZ 718
Hood microbiological transfer Scientific Products AZ/BZ 21
Hood safety Biohazard laminar flow NJ/ZZ 528
Hoods laminar flow Integrated Air Systems Inc. UT/BZ 882
Horizon Ecology ozone generator VA/EN 895
Hormone binding protein: Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation KY/BZ 315
Horticulture: Environmental plant growth control for students of technical agriculture MN/BZ 459
Hotpack Corp. walk-in cold rooms LA/CH 344
Houston dual pen strip chart recorder PA/CH 749
Houston Instrument line printer 8210 IN/EN 252
Houston Instrument x-y plotter 2200-3-3 PA/PS 765
Houston instruments Omniscribe recorder MA/CH 373
Houston Omniscribe chart recorders VWR Scientific, IA/BZ 277
Houston x-y recorder PA/CH 758
Houston 2000 omnigraphic X-Y recorder CO/CH 116
Howe learning module Singer AL/MA 9
HPLC of physiological fluids: Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
HPLC: Basic chemical instrumentation with media assistance NY/CH 617
Huley Associates instrumental analysis and audiovisual material CT/CH 132
Human anatomical charts Frohse NY/BZ 571
Human anatomy and introductory biology for two-year allied health LA/BZ 333
Human anatomy and physiology laboratories physiograph procurement CO/BZ 107
Human anatomy and physiology laboratory for nursing students MS/BZ 471
Human anatomy physiology instructional equipment AL/BZ 11
Human anatomy: Experimental design for physiology concept reinforcement and skill acquisition CA/BZ 75
Human biology for human services personnel NH/BZ 510
Human biology: Biology learning center primarily for nonscience majors SC/BZ 809
Human body physics laboratory for health sciences students IL/PH 201
Human communication art sensory basis FL/IN 172
Human evolution: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850

Human experiments psychology laboratory TN/PS 834
Human factors: Development of laboratories for production and safety engineering MO/ZZ 482
Human genetics filmloop program Milner Fenwick LA/BZ 337
Human learning: Laboratory equipment teaching perception, operant conditioning, psychobiology, and statistics KY/PS 321
Human learning: Undergraduate psychology laboratory for experiments with human subjects TN/PS 834
Human modular test system BRS/LVE LA/PS 339
Human nutrition: Instructional scientific equipment program DE/IN 146
Human perceptual motor behavior IA/PS 289
Human physiology: Lecture, laboratory manuals, and audiovisual aids in vertebrate physiology NY/BZ 593
Human physiology: Physiological ecology for environmental and allied health students ME/BZ 348
Human physiology: Procurement of physiograph for human anatomy and physiology laboratories CO/BZ 107
Human pregnancy models Turtox MS/BZ 471
Human relations area files: Interactive computer mapping of cultures OR/SZ 737
Human research laboratory for junior level psychology majors AR/PS 38
Human research video monitoring recording equipment AL/PS 17
Human research: Bioethics course for undergraduate non-science majors and the public WI/IN 950
Human services personnel biology NH/BZ 510
Human shoulder Nasco life-form LA/BZ 333
Human skeleton Carolina LA/BZ 333
Human skeleton Carolina Biological Supply TX/SZ 850
Human skeleton disarticulated Carolina Biological TX/BZ 837
Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Human tissue slides Turtox IN/BZ 247
Human torso model Turtox IN/BZ 247
Human torso model Wards MS/BZ 471
Humidity temperature chamber Sherer MI/BZ 415
Hunter counter timer NC/PS 636
Hunterlab D25M-4 colorimeter KS/ZZ 302
Hybrid computer analogy Electronic Associates Inc. AZ/EN 25
Hybrid computer for engineering education SD/EN 816
Hydraulic bench Scott Armfield WY/EN 953
Hydraulic Mechanical Load cells compression tester PA/EN 775
Hydraulic microdrive Stoelting OH/PS 688
Hydraulic press Leybold AR/IN 37
Hydraulics diaphragm pump air NM/BZ 540
Hydraulics trainer portable Sperry Vickers MI/EN 401
Hydraulics: Introductory fluid mechanics for engineers IA/EN 280
Hydraulics, hydrology, fluid mechanics experiments for undergraduate civil engineers VA/EN 902
Hydrodynamics: Options in junior and senior year in professional courses NY/EN 633
Hydrogen alpha filter Day Star CO/ZZ 120
Hydrology experiment Technovate VA/EN 902
Hydrology: Aquatic ecology for liberal arts undergraduate women VA/IN 901
Hydrology, fluid mechanics hydraulics, experiments civil engineers VA/EN 902
Hydrostatics fluids properties Technovate VA/EN 902
Hydrostatics Scott Armfield IA/EN 280
Hygrometer dewpoint EG and G NM/BZ 540
Hypothesis testing: Data analysis exercises in anthropology MN/SZ 447
H960-DH cabinet NJ/CS 532
IBM line printer 1403-6 MD/MA 357
IBM plotter 1627-1 MD/MA 357
IBM 029 keypunch machine GA/IN 176
IBM 360 computer: Environment simulator for systems software development TN/CS 831
Ice maker Scotsman TX/CH 844
Ichthyology: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Ichthyo-macroscoplankton net Wildco SC/IN 808
ICOM dual-drive floppy disk unit CA/CS 105
ICR Systems response box controller system TN/PS 834
IEC B-20A refrigerated centrifuge Fisher 5-431-1 KS/EN 300
IEC centrifuge 3472 HNS SD/BZ 818
IEC general purpose centrifuge HN-S PA/BZ 780
IEC PR-6000 refrigerated centrifuge NJ/BZ 519
IEC refrigerated centrifuge B-20A AR/IN 34 MO/IN 480 OR/BZ 731
IEC refrigerated centrifuge B-20-A PA/BZ 789
IEC refrigerated centrifuge CRU-5000 VA/BZ 905
IEC refrigerated centrifuge 6000 IN/ZZ 255
IEC sucrose gradient centrifuge rotor model 488 AL/IN 16
IGFET: Semiconductor material and device project laboratory stressing data validation NY/EN 628
Illinois government: Science and the public process IL/ZZ 217
Illuminator epi fluorescence Zeiss WI/BZ 952
Image analyzer Interpretations Systems Inc. IL/EZ 220 IL/EZ 221
Image enhancement: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Image enhancement: Remote sensing for forestry students IL/EZ 220
Image intensifier: Modern optics and laser physics laboratory for four-year college WI/PH 931
Imagery landsat student interpretation NC/EZ 649
Imagery satellite computer quantitative methods NY/EZ 614
IMLAC minicomputer PDS4 IA/SZ 290
Immune diffusion apparatus 115V/60Lx with attachments NJ/ZZ 528
Immunochemistry: Laboratory courses in cell biology with emphasis on immunology VA/BZ 905
Immunodiffusion immunoelectrophoresis kits Gelman VA/BZ 905
Immunoelectrophoresis immunodiffusion kits Gelman VA/BZ 905
Immunohematology, serology, and immunology for college students NJ/ZZ 528
Immunology and molecular biology: Microbiological laboratory equipment for four-year college NJ/BZ 519
Immunology course aquisition equipment NJ/BZ 522
Immunology laboratory cell biology VA/BZ 905
Immunology microbiology fluorescent microscope laboratory WI/BZ 952
Immunology serology, immunohematology, NJ/ZZ 528
Immunology: Centralized tissue culture facility for students in biological sciences OK/BZ 718
Impact spectrum: Undergraduate communication, electroacoustic, and environmental noise control laboratory ME/EN 351
Impedance bridge Digi-Bridge RLC General Radio HI/EZ 189
Impedance tube apparatus b and K NY/EN 625
Implementation of interactive computer graphics in undergraduate engineering education WI/EN 947
Improved facilities for upper division microbiology courses AZ/BZ 21
Improved instruction in cell biology and biochemistry NC/BZ 639
Improved instruction mathematics, economics, statistics, computer science, through computers MD/MA 357
Improved use of kodachromes and microscope slides in teaching OH/BZ 690
Improvement in general chemistry using computer assisted instruction CT/CH 129
Improvement in nutrition, food science, and dietetics laboratory IN/ZZ 255
Improvement in organic, inorganic, and student research laboratories CA/CH 76
Improvement in public understanding of chemicals in food NY/CH 559
Improvement in statistics instruction using calculators NY/MA 621
Improvement of an individualized general chemistry course TX/CH 844
Improvement of analytical chemistry capabilities with atomic absorption spectrometry OR/CH 745
Improvement of analytical instrumentation and reactor equipment ID/EN 196
Improvement of biological science for the elementary teacher AZ/BZ 24
Improvement of instruction through the semi-paced teaching method KY/EN 328
Improvement of instrumentation and advanced physics laboratory courses CO/PH 110
Improvement of laboratory experiences in electronics and electromechanical technology OK/EN 721
Improvement of laboratory instruction in microbiology, genetics, and physiology PA/BZ 789
Improvement of reading skills using science course materials AZ/CH 26
Improvement of scientific instruments for undergraduate science instruction CA/BZ 69
Improvement of stereoplotter for engineering students WI/EN 948
Improvement of teaching in science, mathematics, and social sciences IL/IN 205
Improvement of undergraduate course in computer and operating systems NJ/CS 532
Improvement of undergraduate laboratory instruction in biochemistry KS/CH 297
Improvement of undergraduate plant physiology laboratory course CT/BZ 138
Improvement of undergraduate studies in petrography NY/EZ 569
Improvements in a junior level computer science course sequence MI/CS 417
Improvements in a projects laboratory with a spray dryer UT/EN 880
Improving biology instruction for students interested in pre-professional studies NY/BZ 549
Improving data skills of sociology students through computer-assisted homework VA/SZ 900
Improving instruction in chemical instrumentation PA/CH 783
Improving scientific competency for students in allied chemical fields CT/CH 133
Impulse computer miniature Grozier Technical Systems ME/EN 351
IMSAI serial input and output board NE/CS 502
IMSAT microcomputer with Z80 modification and peripherals MS/IN 461
In chemical PLATO instruction IL/EN 231
Inaugurating a biosocial science program at Coe College IA/IN 272
Income distribution, economics computer game TX/SZ 854
Incorporation of NMR spectroscopy into undergraduate organic laboratory NY/CH 612

Increment borer Swedish FL/IN 159
Incubation tissue culture Castle NC/BZ 639
Incubator BOD Fisher NC/IN 638
Incubator CO_2 National NJ/BZ 519
Incubator CO_2 Thelco MA/BZ 399
Incubator Fisher PA/ZZ 766
Incubator Freas precision SC/BZ 800
Incubator gravity convection Blue M Electric Co. MI/BZ 420
Incubator Percival MI/BZ 419
Incubator shaker New Brunswick Scientific DE/IN 146
Incubator shaker Paycrotherm New Brunswick UT/BZ 882
Incubator tissue culture carbon dioxide LabLine OK/BZ 718
Incubators Blue M gravity convection MA/BZ 386
Incubators small specimen Thermolyne MA/BZ 386
Incubators, GCA Precision Scientific MN/BZ 439
Inc. ISA monochrometer NY/CH 610
Independent field marine laboratory for two-year college students FL/BZ 158
Independent projects: Lecture, laboratory manuals, and audiovisual aids in vertebrate physiology NY/BZ 593
Independent research projects in microbiology CT/BZ 137
Independent research: Centralized tissue culture facility for students in biological sciences OK/BZ 718
Independent student investigations: Undergraduate laboratory instruction in nutritional science NY/BZ 566
Independent study audiovisual modules chemistry OH/CH 661
Independent study: Advanced instrumental analysis CO/CH 116
Independent study: Modular materials that assist biology students in investigation IL/BZ 235
Indeterminate structures: Self paced interactive computer graphics instruction in structural engineering VA/EN 894
Indicator electrolytic resistance Leeds Northrup OK/EN 729
Individual hands-on computer experience for core computer science CO/CS 112
Individual instruction: Short courses on special topics in physics NY/PH 616
Individualized instruction: Audio-tutorial minicourses for college algebra and trigonometry IN/MA 249
Individualized mathematics and science instruction TX/IN 841
Individualized study: Modulized course in principles of entomology FL/BZ 166
Individually designed educational activities for teaching introductory psychology NY/PS 553
Industrial chemistry: Laboratory revision with industrial emphasis MI/CH 422
Industrial control experiments: Automated industrial facility simulator laboratory IN/EN 254
Industrial electronic controls instrumentation microprocessors OR/EN 732
Industrial emphasis laboratory revision MI/CH 422
Industrial engineering students: Automated industrial facility simulator laboratory IN/EN 254
Industrial engineering: Computer integrated teaching modules for engineering design and manufacturing IN/EN 269
Industrial engineering: Development of laboratories for production and safety engineering MO/ZZ 482
Industrial facility simulator laboratory IN/EN 254
Industrial hygiene: Development of laboratories for production and safety engineering MO/ZZ 482
Industrial input: Introduction to environmental concepts for engineers IN/EN 257
Industrial noise control: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Industrial revolution: Economic history from periods of structural economic change VA/SZ 892
Industrial technician training: Atomic absorption spectroscopy for analytical chemistry students TX/CH 838
Industrial technologist: Immunohematology, serology, and immunology for college students NJ/ZZ 528
Industrial technology: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Industries regional mathematics problems OK/MA 713
Industry modeling problems OH/MA 682
Industry supported courses: Senior level environmental air pollutants sampling and monitoring course IN/EN 267
Inert gas and airless handling: Laboratory equipment for integrated junior and senior chemistry laboratory MN/CH 441
Inert gas glassware system Ace Glass Inc. MN/CH 441
Infant behavior development video-taped observation KS/PS 307
Information processing auditory behavior observation NC/PS 636
Information processing experiments optical TX/EN 859
Information processing laboratory computer psychology PA/PS 765
Information processing system interactive flow sheet NY/EN 581
Information processing: Tachistoscope for undergraduate experimental psychology RI/PS 792
Information processing: Undergraduate psychology laboratory for experiments with human subjects TN/PS 834
Information retrieval scientific instructional materials CA/IN 101
Information retrieval: Computer aided design in engineering design graphics for freshman TX/EN 851
Information science: Instructional materials for scientific information retrieval CA/IN 101
Information theory: Sensory basis of art and human communication FL/IN 172
Infoton CRT terminal 200 TX/EN 876
Infoton CRT terminals IN/EN 266
Infoton CRT 200 VA/CS 912
Infra red spectrophotometer and modular electronics for teaching chemistry NE/CH 496
Infrared gas analyzer carbon dioxide Intertech Corp. IN/ZZ 251
Infrared spectrometry: Addition of mass spectrometry to a spectrometric analysis course OR/CH 741
Infrared spectrophotometer KS/BZ 295
Infrared spectrophotometer Acculab Beckman Instruments TN/EN 825
Infrared spectrophotometer Beckman Acculab TX/CH 840
Infrared spectrophotometer Beckman Instruments MD/CH 356
Infrared spectrophotometer Cary Varian GA/CH 182
Infrared spectrophotometer Perkin Elmer CA/CH 76
Infrared spectrophotometer perkin Elmer KS/ZZ 302
Infrared spectrophotometer Perkin Elmer MS/IN 461 NE/CH 496 OH/CH 702 TN/CH 821 WA/CH 919
Infrared thermometer Barnes Instatherm CO/PH 123
Infrared, visible, ultraviolet spectrophotometers for science and non-science majors TN/CH 821
Ingram Ward petrographic thin section equipment 135 and 400 NY/EZ 569
Initiation of a review and remedial math clinic IA/MA 271
Injection molding machine Buy-15 MA/EN 394
Injector LC universal Waters PA/CH 758
Injector Waters Associates MN/CH 450
Innovative experimental design course and projects in renovated laboratories MA/BZ 399
Innovative undergraduate course in social psychology and health CA/ZZ 96
Inorganic analytical, physical chemistry laboratories NY/CH 574
Inorganic, student research laboratories CA/CH 76
Input output board serial NE/CS 502
Input output devices Interdata GA/EN 180
Inquiry method and Piagetian approach to general college chemistry CO/CH 128
Inquiry method: Computer extended life laboratory studies for general biology NY/BZ 562
Inquiry role approach for teaching physical science NE/PH 498
Inquiry-based: Piagetian based introductory chemistry laboratory for science majors MS/CH 462
Inquiry: Improvement of biological science for the elementary teacher AZ/BZ 24
Insertions orifices nursing practice model AK/BZ 20
Inspection error: Computer simulated sampling game for study of quality control OK/EN 715
Instruction computer adaptive evaluation IA/SZ 292
Instruction introductory physics laboratory AL/PH 2
Instruction laboratory economics OH/CH 664
Instruction large class talking pages OK/MA 727
Instruction mathematics remedial, tutorial, augmented self paced audiovisual AL/MA 9
Instructional and research projects: Microbiological laboratory equipment for four-year college NJ/BZ 519
Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Instructional equipment for human anatomy and physiology AL/BZ 11
Instructional equipment for Kirkwood's activated sludge training program IA/ZZ 283
Instructional equipment in engineering TX/EN 852
Instructional ethnographic laboratory CA/SZ 92
Instructional materials for engineering experimentation for sophomores and higher NJ/EN 531
Instructional materials for scientific information retrieval CA/IN 101
Instructional scientific equipment for transportation engineering materials laboratory TN/EN 826
Instructional scientific equipment in chemistry for minority students MD/CH 356
Instructional scientific equipment program DE/IN 146 RI/BZ 794
Instructional solar laboratory MA/ZZ 371
Instructional videocassettes on energy topics MS/PH 467
Instructor designed coursework: Improvement of reading skills using science course materials AZ/CH 26
Instructor microprocessor Signetics Corp. NC/PH 637
Instructors package for TTL integrated circuits FL/EN 168
Instrument availability: Mass spectrometer and NMR for undergraduate chemistry laboratories KY/CH 320
Instrument design: Instrumental analysis incorporating mass spectroscopy and modular electronic instrumentation PA/CH 749
Instrument laboratory programming system Coulbourn TX/PS 879
Instrument operation auto-tutorial audiovisual modules MA/CH 384
Instrument simulation: PLATO lesson modules for biomedical instrumentation IL/EN 233
Instrument system modular Daytronic NH/EN 513
Instrumental analysis advanced CO/CH 116
Instrumental analysis and audiovisual Huley Associates CT/CH 132
Instrumental analysis capabilities improvement for undergraduates KY/CH 316
Instrumental analysis for undergraduate chemistry students VA/CH 899

Instrumental analysis incorporating mass spectroscopy and modular electronic instrumentation PA/CH 749
Instrumental analysis: Acquisition and manipulation of digital data in physical chemistry NV/CH 506
Instrumental analysis: Atomic absorption and mass spectrometry in analytical organic chemistry NY/CH 630
Instrumental analysis: Atomic absorption spectroscopy for analytical chemistry students TX/CH 838
Instrumental analysis: Infrared, visible, ultraviolet spectrophotometers for science and non-science majors TN/CH 821
Instrumental analysis: Proton magnetic resonance experiments in undergraduate chemistry curriculum SC/CH 801
Instrumental analysis, atomic absorption, and audiovisual material CT/CH 132
Instrumental and computational methods in biology WY/BZ 954
Instrumental quantitative analysis research MS/CH 465
Instrumentan analysis chemistry: Nuclear magnetic resonance spectroscopy NM/CH 546
Instrumentation and microprocessor laboratory for mechanical and chemical engineers FL/EN 168
Instrumentation biological undergraduate involvement OR/BZ 731
Instrumentation chemical instruction PA/CH 783
Instrumentation chemical medical technology VA/CH 898
Instrumentation design: Low cost microcomputer controllers, use, and applications CA/EN 97
Instrumentation electronic analytical McKee Pedersen PA/CH 749
Instrumentation electronic physical measurements TX/PH 849
Instrumentation electronics laboratory life sciences PA/PH 785
Instrumentation for biochemistry laboratory AL/CH 5
Instrumentation for upper division chemistry laboratories CA/CH 50
Instrumentation implementation for teaching contemporary science techniques MS/IN 461
Instrumentation laboratory VA/EN 909
Instrumentation Laboratory atomic absorption spectrophotometer 251 IN/CH 240
Instrumentation Laboratory flameless atomizer 555 IN/CH 240
Instrumentation laboratory health science, biology, PA/ZZ 766
Instrumentation laboratory in two year college MA/PH 377
Instrumentation Labs atomic absorption spectrophotometer 150 OR/CH 745
Instrumentation medical slide tape programs WI/EN 942
Instrumentation modeling electronic industrial controls microprocesors OR/EN 732
Instrumentation: Computer assisted mechanical systems analysis and synthesis laboratory NH/EN 513
Instrumentation: Instructional materials for engineering experimentation for sophomores and higher NJ/EN 531
Instrumentation: Laboratory Courses in Modern Analytical and Physical Chemistry PA/CH 782
Instrumentation: Laboratory revision with industrial emphasis MI/CH 422
Instrumentation: Modernization of organic chemistry laboratory experiments OH/CH 702
Instrumentation: Solid state laboratory for aversive control of animal behavior PA/PS 760
Instrumentation: Use of microprocessors in automatic control systems KS/EN 303 KS/EN 304
Instruments breadboards E and L KS/EN 303 KS/EN 304
Instruments microcomputer interfacing chemistry laboratory PA/CH 787
Instruments surgical FL/IN 167
Instruments use: Audiovisual materials and data assessment for college chemistry laboratory MN/CH 442
Integrated Air Systems Inc. laminar flow hoods LH UT/BZ 882
Integrated circuit laboratory improvement CA/EN 88
Integrated circuit PDP-8 interface State Systems MI/PS 402
Integrated circuit technology: Undergraduate semiconductor device fabrication projects TX/EN 858
Integrated circuits electronics course IA/PH 275
Integrated circuits TTL instructors package FL/EN 168
Integrated circuits: Freshman non-calculus introductory self-paced electronics laboratory AR/PH 36
Integrated circuits: Purchase of instruments for teaching electronics in physics laboratory CA/PH 77
Integrated course sequence: Microprocessor system design for undergraduate electrical engineers MO/EN 484
Integrated general chemistry for independent study through audiovisual modules OH/CH 681
Integrated laboratory classwork: Improvement of reading skills using science course materials AZ/CH 26
Integrated laboratory: Laboratory revision with industrial emphasis MI/CH 422
Integrated laboratory: Project-oriented organic laboratories NY/CH 615
Integrated mini-micro learning center NE/CS 502
Integrated science laboratory module improvement TX/IN 839
Integrated two-course sequence in genetics LA/BZ 337
Integrating the computer into mathematics courses FL/MA 171
Integration of analytical, physical and inorganic chemistry laboratories NY/CH 574
Integrator boxcar Princeton Applied Research IN/IN 259
Integrator reporting Hewlett Packard ID/EN 196
Integrators full wave Teca MA/ZZ 370
Integrator: Improvement of analytical instrumentation and reactor equipment ID/EN 196
Intel in-circuit emulator MDS-80-ICE TX/EN 876
Intel MDS 80 IN/EN 252
INTEL MDS-UPP-100 PROM programming unit CA/CS 105
INTEL MDS-800 microcomputer development system CA/CS 105
Intel microprocessor MA/PS 383
Intel microprocessor development kit SDK 85 WI/EN 937
Intel Prompt 50 IN/EN 253
Intel Prompt 80 IN/EN 252
Intel PROMPT-80 microcomputer development station CO/EN 125
Intel read and write dynamic MOS memory module MDS-016 TX/EN 876
Intel SDK-8085 evaluation kit IL/CS 225
Intel 220 microcomputer and peripherals NY/EN 584
Intel 8080A microprocessor evaluation kit KY/EN 327
Intellectual development: Desk top kits for introductory chemistry: a Piagetian approach FL/CH 173
Intellectual development: Piagetian based introductory chemistry laboratory for science majors MS/CH 462
Intellectual maturity: Desk top kits for introductory chemistry: a Piagetian approach FL/CH 173
Intelligent Systems CRT 8001 OH/CH 673
Interactive auto-tutorial audiovisual modules for complex instrument operation MA/CH 384
Interactive computer game on principles of income distribution, economics TX/SZ 854
Interactive computer graphics for simulating construction field operations CA/EN 84
Interactive computer graphics for simulation of large construction operations CA/EN 83
Interactive computer mapping of cultures OR/SZ 737
Interactive computer program: Computer assisted teaching of organic synthesis MA/CH 389
Interactive digital plotter Tektronix OR/SZ 737
Interactive digital plotter 4662 ND/CH 656
Interactive displays teaching computer languages IN/CS 245
Interactive flow sheet information processing system NY/EN 581
Interactive graphics manufacturing applications NM/CS 542
Interactive lecture system Polaroid PA/PH 767
Interactive microprocessor simulation of mass spectrometers NY/CH 583
Interactive study group instructional strategy for nutritional science TX/BZ 857
Interactive timesharing computing environment for forest science instruction WI/ZZ 941
Interactive: Computer modules for freshmen biology labs NY/BZ 558
Interactive: Economics lessons programmed on the CDC PLATO computer MN/SZ 443
Intercolor graphic terminal kits TX/PS 860
Interdata automatic data acquisition system 5/16 TX/EN 852
Interdata digital and analog input and output devices GA/EN 180
Interdata minicomputer 7/32 WA/SZ 923
Interdata PASLA serial interface board NE/CS 502
Interdata 10 megabyte disk GA/EN 180
Interdata 7/16 minicomputer MI/CS 417
Interdata 8/16 minicomputer GA/EN 180
Interdepartmental radiation laboratory NJ/IN 534
Interdisciplinary approach to science education NY/IN 596
Interdisciplinary education: Thematic approach to undergraduate social science curriculum VA/SZ 906
Interdisciplinary fluids laboratory: Basic fluid mechanics laboratory for engineering students IL/EN 203
Interdisciplinary introductory video tape course in sociology and anthropology OH/SZ 675
Interdisciplinary laboratory microprocessor CO/EN 111
Interdisciplinary program in powder X-ray diffraction IL/EZ 236
Interdisciplinary science field experience FL/IN 159
Interdisciplinary social science research skills AL/IN 13
Interdisciplinary undergraduate modular electrical and physical measurements laboratory ME/PH 352
Interdisciplinary usage: Marine science fluorometric determination of chlorophyll and water movement NY/ZZ 573
Interdisciplinary: Acquisition of computer terminals to support undergraduate instruction NJ/IN 525
Interdisciplinary: Aquatic ecology for liberal arts undergraduate women VA/IN 901
Interdisciplinary: Ascent of man for honors students in non-science majors OH/IN 704
Interdisciplinary: Beginning scientific computer programming techniques for undergraduate science students MI/IN 408
Interdisciplinary: Biochemical methods laboratory CA/IN 95
Interdisciplinary: Biochemistry cell physiology laboratory for Graduates and Pre-professionals AR/IN 34
Interdisciplinary: Biochemistry laboratory equipment program MO/IN 490
Interdisciplinary: Bioethics course for undergraduate non-science majors and the public WI/IN 950
Interdisciplinary: Computer aided instruction in mathematics and physics GA/IN 176
Interdisciplinary: Computer assisted instruction for chemistry, economics, and future studies CA/IN 42
Interdisciplinary: Computer control of undergraduate science laboratory experiments MD/IN 361

Interdisciplinary: Computer ethics NY/IN 585
Interdisciplinary: Development of interdisciplinary social science research skills AL/IN 13
Interdisciplinary: Development of solid state laboratory for undergraduate electrical engineers IN/IN 259
Interdisciplinary: Development of undergraduate history of science course and laboratory MN/IN 452
Interdisciplinary: Electron capture gas chromatography to outfit environmental chemistry laboratory NY/IN 578
Interdisciplinary: Electron microscopy technician training program NY/IN 589
Interdisciplinary: Environment oriented aerial photo interpretation laboratory for science majors IL/SZ 237
Interdisciplinary: Environmental project oriented field and laboratory science classes CA/EZ 52
Interdisciplinary: Field vehicle for field sciences ID/IN 190
Interdisciplinary: Guided design in interdisciplinary introductory college science program NJ/IN 529
Interdisciplinary: Guided design projects for physical science course WV/IN 927
Interdisciplinary: High speed refrigerated centrifuge in the modern biochemical laboratory ID/IN 192
Interdisciplinary: Honors program in biopsychology NJ/IN 536
Interdisciplinary: Honors program in life science ethics NJ/IN 537
Interdisciplinary: Improvement of teaching in science, mathematics, and social sciences IL/IN 205
Interdisciplinary: Inaugurating a biosocial science program at Coe College IA/IN 272
Interdisciplinary: Individualized mathematics and science instruction TX/IN 841
Interdisciplinary: Instructional materials for scientific information retrieval CA/IN 101
Interdisciplinary: Instructional scientific equipment program DE/IN 146
Interdisciplinary: Instrumentation implementation for teaching contemporary science techniques MS/IN 461
Interdisciplinary: Integrated science laboratory module improvement TX/IN 839
Interdisciplinary: Integrating the computer into mathematics courses FL/MA 171
Interdisciplinary: Interdepartmental radiation laboratory NJ/IN 534
Interdisciplinary: Introductory laboratory course in neurobiology MN/IN 434
Interdisciplinary: Laboratory assisted biology and chemistry for two-year college NC/IN 638
Interdisciplinary: Laboratory simulations in two-year, private liberal arts college OK/IN 722
Interdisciplinary: Measurements in environmental science TX/IN 848
Interdisciplinary: Microcomputer applications and affinity chromatography for science undergraduates WI/IN 946
Interdisciplinary: Multidisciplinary laboratory course for science majors CA/IN 103
Interdisciplinary: Multidisciplinary science study project center for two-year college OR/IN 748
Interdisciplinary: Multidisciplinary university introduction to children as a research topic CA/SZ 91
Interdisciplinary: Natural science designed for the disadvantaged learner CA/IN 85
Interdisciplinary: Nogoro subsistence and ecology OR/IN 738
Interdisciplinary: Physics laboratory for architects AR/IN 37
Interdisciplinary: Piagetian-based physical sciences course for preservice teachers NE/IN 500
Interdisciplinary: Practical electronic technology laboratory for undergraduate college students MI/IN 423
Interdisciplinary: Radioisotope usage for interdisciplinary sciences MD/IN 360
Interdisciplinary: Real time computer aided laboratories in psychology and biology TX/IN 862
Interdisciplinary: Scanning electron microscope for multi-discipline undergraduate laboratory classes MT/EN 489
Interdisciplinary: Science fiction films PA/PH 781
Interdisciplinary: Self-paced materials for a competency-based fundamental science curriculum MI/IN 406
Interdisciplinary: Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
Interdisciplinary: Sensory basis of art and human communication FL/IN 172
Interdisciplinary: Social science computing facilities for liberal arts college CT/IN 135
Interdisciplinary: Structure determination using spectra and on-line bibliographic retrieval systems IL/IN 204
Interdisciplinary: Student guide to observational research in animal behavior PA/IN 753
Interdisciplinary: Student research instruction in psychobiology CT/IN 131
Interdisciplinary: Studies on radiation, projection, and radioactivity for science majors OH/IN 689
Interdisciplinary: Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Interdisciplinary: Training undergraduate science majors in science reporting NY/IN 602
Interdisciplinary: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Interdisciplinary: Undergraduate equipment grant for interdisciplinary biochemistry course NY/IN 580
Interdisciplinary: Undergraduate marine science educational equipment SC/IN 808
Interdisciplinary: Undergraduate statistics laboratory IL/IN 213
Interdisciplinary: Unified science course for minimally motivated students MA/IN 397
Interdisciplinary: X-ray diffraction unit for geology, physics, and chemistry WI/IN 951
Interface analog I/O real time MA/PS 383
Interface boards realtime clock State Systems Inc. MS/PS 469
Interface cards logic processor power supplies, Prolog Corp. OR/EN 732
Interface computer 3-M test scorer MI/MA 433
Interface design: Microprocessor based interdisciplinary laboratory CO/EN 111
Interface digital Cromemco NV/CS 504
Interface equipment for computer terminals IL/IN 213
Interface integrated circuit PDP-8 State Systems MI/PS 402
Interface microcomputer mass spectrometer TX/CH 835
Interface module communications EIA Texas Instruments TX/IN 862
Interface serial board PASLA Interdata NE/CS 502
Interface states: Solid state physics laboratory for seniors CA/PH 55
Interface unit OPL Mult-Tek WA/BZ 920
Interfaces to Amdahl computer 470-V6 TX/EN 851
Interface, printer Centronics FL/MA 171
Interfacing a microcomputer with instruments in a chemistry laboratory PA/CH 787
Interfacing boards microcomputer E and L Instruments Inc. VT/EN 891
Interfacing technology microprocessor teaching VT/EN 891
Interfacing: Microcomputer laboratory for undergraduate computer scientists and engineers NH/CS 514
Interference filter 10 angstrom CO/ZZ 120
Intergrator recorder Beckman MN/BZ 446
Intermediate technology: Aquisition of equipment for a course in immunology NJ/BZ 522
Intermediate technology: Atomic absorption spectrophotometer for analytical chemistry and advanced projects IN/CH 240
Intermediate technology: Atomic absorption spectroscopy for analytical chemistry students TX/CH 838
Intermediate technology: Audio tutorial self paced experiments open channel flow OR/EN 734
Intermediate technology: Basic laboratory equipment for teaching physiological psychology TX/PS 843
Intermediate technology: Biochemistry laboratory emphasizing current research techniques CA/CH 56
Intermediate technology: Cell biology laboratory for biology majors TX/BZ 856
Intermediate technology: Chemical instrumentation for medical technology students VA/CH 898
Intermediate technology: Computer interface to upgrade undergraduate chemistry and physics laboratories NY/PH 595
Intermediate technology: Computer managed laboratories for four cognitive physchology courses FL/PS 165
Intermediate technology: Computerized data analysis for taxonomy, plant identification and systematics WA/BZ 920
Intermediate technology: Courseware for microprocessor and microcomputer instruction IN/ZZ 239
Intermediate technology: Development of a course on recycling of materials OH/EN 668
Intermediate technology: Development of solid state laboratory for undergraduate electrical engineers IN/IN 259
Intermediate technology: Electrical engineering materials for sophomores ME/EN 354
Intermediate technology: Electron microscopy technician training program NY/IN 589
Intermediate technology: Electronics experiments for introductory physics laboratory IL/PH 210
Intermediate technology: Energy awareness in engineering physics PA/PH 771
Intermediate technology: Equipment purchase for improvement of geophysics program OH/EZ 693
Intermediate technology: Experimental psychology laboratory training program TX/PS 879
Intermediate technology: Fluid mechanics laboratory on open channel flow OR/EN 733
Intermediate technology: Geology laboratory improvement OK/EZ 724
Intermediate technology: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Intermediate technology: High pressure liquid chromatography teaching tool for undergraduate chemistry IN/CH 263
Intermediate technology: Implementation of interactive computer graphics in undergraduate engineering education WI/EN 947
Intermediate technology: Improvement of laboratory instruction in microbiology, genetics, and physiology PA/BZ 789
Intermediate technology: Improvement of scientific instruments for undergraduate science instruction CA/BZ 69
Intermediate technology: Improvement of undergraduate studies in petrography NY/EZ 569
Intermediate technology: Infrared, visible, ultraviolet spectrophotometers for science and non-science majors TN/CH 821

Intermediate technology: Instructional scientific equipment for transportation engineering materials laboratory TN/EN 826
Intermediate technology: Instrumental analysis capabilities improvement for undergraduates KY/CH 316
Intermediate technology: Instrumental analysis incorporating mass spectroscopy and modular electronic instrumentation PA/CH 749
Intermediate technology: Instrumentation for upper division chemistry laboratories CA/CH 50
Intermediate technology: Interdisciplinary program in powder X-ray diffraction IL/EZ 236
Intermediate technology: Introduction to pulse circuits SC/EN 803
Intermediate technology: Laboratory Courses in Modern Analytical and Physical Chemistry PA/CH 782
Intermediate technology: Laboratory equipment for integrated junior and senior chemistry laboratory MN/CH 441
Intermediate technology: Laboratory instruction in modern scientific techniques for physics students OH/PH 684
Intermediate technology: Laboratory instrumentation for health science chemistry OK/CH 710
Intermediate technology: Laboratory instrumentation for health science, biology, and related fields PA/ZZ 766
Intermediate technology: Land surveying measurements and computations laboratory LA/EN 338
Intermediate technology: Low cost microcomputer controllers, use, and applications CA/EN 97
Intermediate technology: Measurement of intracellular and extracellular bioelectrical potentials ND/BZ 655
Intermediate technology: Mechanical properties of plastics laboratory CA/EN 53
Intermediate technology: Medical electronic instrumentation for pre-medical students TN/PH 820
Intermediate technology: Methods in neurobiology FL/IN 167
Intermediate technology: Microbiological laboratory equipment for four-year college NJ/BZ 519
Intermediate technology: Microcomputers in liberal arts science curriculum SD/PH 812
Intermediate technology: Microprocessor based interdisciplinary laboratory CO/EN 111
Intermediate technology: Modern measurement techniques for undergraduate sensory psychology laboratory MA/PS 383
Intermediate technology: Neurophysiological and behavioral experiments in undergraduate organismic biology laboratory MD/BZ 365
Intermediate technology: New transportation component for an interactive technology society course NJ/EN 524
Intermediate technology: Nuclear magnetic resonance instruction for organic-analytical chemistry laboratories LA/CH 334
Intermediate technology: Optical equipment for transfer of map data MA/EZ 367
Intermediate technology: Perceptual laboratory for technical students NY/PS 588
Intermediate technology: Physics and technology of materials OH/PH 681
Intermediate technology: Physics laboratory for architects AR/IN 37
Intermediate technology: Practical electronic technology laboratory for undergraduate college students MI/IN 423
Intermediate technology: Principles of biomedical electronic instrumentation NY/PH 598
Intermediate technology: Project type experiments emphasizing molecular biochemistry for pre-professional students ND/CH 654
Intermediate technology: Research and professional capabilities for cell biology, genetics, microbiology SC/BZ 800
Intermediate technology: Research equipment in autotutorial science teaching in undergraduate physiology IL/BZ 215
Intermediate technology: Scanning electron microscopy for undergraduate training OH/BZ 699
Intermediate technology: Science laboratory project in support of community research needs CA/BZ 66
Intermediate technology: Semiconductor material and device project laboratory stressing data validation NY/EN 628
Intermediate technology: Solid state physics laboratory for seniors CA/PH 55
Intermediate technology: State-of-the-art instrumentation in drug analysis courses KS/CH 309
Intermediate technology: Steam power laboratory for technology and engineering OK/EN 717
Intermediate technology: Super-speed centrifuge for molecular biology OK/BZ 711
Intermediate technology: Team taught interdisciplinary statistics with multimedia labs CA/MA 49
Intermediate technology: Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Intermediate technology: Texts and labs for minicourses in electronics for scientists IA/PH 284
Intermediate technology: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Intermediate technology: Undergraduate instruction in photogeology CA/EZ 87
Intermediate technology: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Intermediate technology: Upgrading lab facilities for neuroscience instruction OH/PS 688
Intermediate technology: Up-grading electronics courses IA/PH 293
International clinical centrifuge, trunnion, and sleeves IEC 221.428.303 IA/ZZ 283
International Equipment Co. centrifuge K NJ/BZ 522
International Scientific Instruments scanning electron microscope CA/BZ 60
Interpretation of satellite imagery by computer quantitative methods NY/EZ 614
Interpretations Systems Inc. VP-8 image analyzer 130 IL/EZ 220
IL/EZ 221
Interstate Electronics Corp. function generator F41 KS/EN 304
Interstate Electronics Corp. function generators F41 KS/EN 303
Intertec Superterm high speed teleprinter WA/SZ 923
Intertech Corp. carbon dioxide infrared gas analyzer URAS-2 IN/ZZ 251
Intracellular probe system Mentor ND/BZ 655
Introduction of computer graphics into the engineering curriculum OH/CS 697
Introduction of computer graphics to mechanical design TX/EN 868
Introduction to computer maintenance for electronic technicians AR/CS 35
Introduction to environmental concepts for engineers IN/EN 257
Introduction to pulse circuits SC/EN 803
Introductory astronomy teaching aids and laboratory equipment SD/PH 811
Introductory chemistry: Piagetian approach FL/CH 173
Introductory computer programming with hand-held programmable calculators VT/CS 888
Introductory fluid mechanics for engineers IA/EN 280
Introductory laboratory course in neurobiology MN/IN 434
Introductory laboratory technician training biochemistry AL/IN 16
Introductory mineralogy spectroscopic laboratory AZ/EZ 22
Introductory physical geology for law enforcement studies students OH/EZ 679
Introductory physics experiments for premeds emphasizing properties of matter NH/PH 508
Introductory physics laboratory instruction AL/PH 2
Introductory physics with an engineering ambience for non-science majors NY/PH 560
Introductory physics: Physics demonstrations for life science students MI/PH 416
Introductory physiology IL/BZ 198
Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Inventory of natural resources: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Inventory of natural resources: Remote sensing for forestry students IL/EZ 220
Invertebrate physiology and ecology: Undergraduate research program in marine biology CA/BZ 82
Inverted phase contrast microscope Nikon AZ/BZ 21
Investigative introductory geology course in the field in Montana IN/EZ 246
Investigative laboratories in microbiology for non-science majors IL/BZ 230
Investigative laboratories: General biology and independent studies MI/BZ 415
Ion chamber Victoreen TN/PH 824
Ion meter Orion Research MA/CH 380
Ion specific Orion RI/BZ 794
Ionization meter Victoreen MO/PH 479
Ionization potential: Mass spectrometry for undergraduates using a Varian EM-600 TX/CH 863
Ir microscope Research Device Inc. CT/ZZ 139
ISA Inc. monochrometer H-20 NY/CH 610
Isco automatic fraction collector model 1200 AL/IN 16
ISCO circular fraction collector LA/CH 344
ISCO electrophoresis power supply 49L CO/CH 108
ISCO Golden Retriever linear fraction collector IN/BZ 243
Isco gradient analysis assembly model 185 AL/IN 16
Isco uv detector 226 VA/CH 907
Isco uv monitor, flow cell, and recorder model UA-5 AL/IN 16
ISI scanning electron microscope MSM-5 OH/BZ 699
ISI scanning electron microscope 7 MT/EN 489
Ising model: Modules in probability with computing NH/MA 509
Isokinetic dynamometer Lumex Cybex MA/ZZ 370
Ithaco Dynatrac 3 lock-in analyzer 393 IN/IN 259
Ithaco light beam chopper 383 IN/IN 259
Ithaco ratiometer option 02 IN/IN 259
IVC 90 camera LA/BZ 341
Ixil Mayan indians: Self paced video and computer assisted instruction in ethnography CA/SZ 93
I/O digital Digital Equipment OH/CH 683
Jarrel Ash monochromator step motor scan drive 82-462 KS/PH 298
Jarrel Ash one-fourth meter Ebert monochromator 82-410 KS/PH 298
Jarrell Ash Dial Atom III atomic absorption spectrophotometer NY/CH 630
Jarrell Ash Dial-Atom III spectrophotometer NY/CH 568
JCR video player CP5200U TN/CH 833
John Fluke power supply GA/PH 181

Johnson outboard motor 140TXL77 FL/IN 153
Joystick Tektronix OH/CS 697
Junction diode: Semiconductor material and device project laboratory stressing data validation NY/EN 628
Junior and senior personalized system of astrophysics instruction NM/ZZ 545
Junior level microprocessor laboratory and course IN/EN 253
JVC tape player video monitor IN/ZZ 251
JVC video playback unit CP 5000 NJ/EN 531
JVC videotape recorder CR 6060 U ND/BZ 652
K and E digitizable planimeter and teletype printer IL/EZ 220 IL/EZ 221
K and E electronic distance meter SC/EN 806
K and E Schlieren system NY/EN 603
K and S 484 wedge bonder PA/EN 761
KB heavy duty core sampler Wildco Co. NY/BZ 607
Keithley Instruments multimeter 179 GA/PH 175
Keithley lock-in amplifier 820 NJ/PH 518
Keithley 160B digital microvolt multimeters NY/EN 575
Keithley 160B digital multimeter NY/EN 628
Keithley 168 digital multimeter CT/CH 141
Keller method: Competency-based self-paced algebra for students with weak mathematical backgrounds MI/MA 433
Keller plan: Self-paced junior/senior level quantum mechanics and statistical mechanics PA/PH 762
Kelvinator 2-door chromatography refrigerator MN/CH 456
Kemmerer Classmate nonmetallic sampling bottle FL/BZ 158
Keuffel and Esser Autoranger EDM instrument 760332 LA/EN 338
Keyboard ASCII Texas Instruments Silent terminal TX/IN 862
Keypunch machine IBM GA/IN 176
Killion film blowing line MA/EN 394
Killion wire coating line MA/EN 394
Killion 3cm extruder MA/EN 394
KIM microprocessor trainers IA/PH 284
KIM-1 microcomputer CA/CS 46
KIM-1 microcomputer card MOS Technology Inc. AZ/EN 31
Kinematic linkages: Computer aided design in engineering design graphics for freshman TX/EN 851
Kinematic viscosity bath Temp-Trol IL/CH 202
Kinesiology: Laboratory experiences in the exercise sciences AZ/BZ 32
Kinetic studies: Chemical engineering laboratory approval OK/EN 729
Kinetics chemical laboratory study NY/CH 610
Kinetics thermodynamics computer assisted MN/CH 449
Kinetics uv enzyme medial technology FL/ZZ 161
Kinetics: Slide-tape assisted self-paced biochemistry laboratory for undergraduate women MA/BZ 381
Kinetics: Theoretical physical chemistry laboratory CA/CH 94
Kirkwood's activated sludge training program IA/ZZ 283
Kits: Modular materials that assist biology students in investigation IL/BZ 235
Kjeldahl apparatus Labaconco CA/ZZ 59
Kjeldahl digestion unit Fisher NY/BZ 566
Klett Summerson colorimeter PA/BZ 789
Knife breaker glass DuPont Sorvall VA/BZ 905
Kodachrome slide viewers Bell Howell OH/BZ 690
Kodachromes microscope slides teaching OH/BZ 690
Kodak Carousel dissolve control GA/CH 185
Kodak Carousel 750 projectors AL/EZ 1
Kodak Ektagraphic Audioviewer NJ/CH 516
Kodak Ektagraphic Audioviewer model 450 AZ/BZ 30
Kodak Ektagraphic EF Visual Maker NY/PS 553
Kodak Ektagraphic slide projector E-2 SC/BZ 809
Kodak Ektagraphic 400 audioviewer OH/CH 661
Kodak LAP dissolve unit NE/CH 497
Kodak random access slide projector Ektagraphic RA-960 LA/PS 339
Kodak slide projector and screen IA/PS 289
Kodak slide projectors OH/BZ 690
Kodak slide projector, Ektagraph model AF-2 AZ/BZ 30
Kodak Visual Maker AL/MA 9
Kopf Co. sterotaxic instruments KY/PS 321
Kopf Instruments small animal stereotaxic 900 DC/PS 147
Kopf small animal stereotaxic instrument 900 NC/PS 640
Kopf stereotaxic instrument 900 IL/BZ 215
Kopf stereotaxics FL/IN 167
Kopf student stereotaxics 400 PA/PS 755
Krohn Hite function generator 1000 AZ/EN 25
Krohu Hite variable filter 3103 TX/EN 852
KSR terminal external sync Ann Arbor terminals AL/PS 17
Lab courses non-science psychology OH/PS 671
Lab curricula in estuarine ecology, limnology and comparative physiology NY/BZ 563
Lab experience programming upgrading computer facilities AL/CS 12
Lab experiments Schottky diode fabrication, NY/EN 575
Lab experiments solar cell NY/EN 575
Lab experiments thermoelectricity NY/EN 575
Lab facilities neuroscience OH/PS 688
Lab logic Hewlett Packard IN/EN 254
Lab manual: Software for instruction in cognitive psychology laboratory CO/PS 127
Lab monitor Nucleus NJ/IN 534
Lab physics biologists LA/PH 332
Lab power electronics electrical engineers MA/EN 398
Labaconco Kjeldahl combination digestion and distillation multi-unit apparatus CA/ZZ 59
Labconco freeze dryer 5 PA/BZ 788
LabLine roller culture apparatus 1523 OK/BZ 718
LabLine vip carbon dioxide tissue culture incubator 417 OK/BZ 718
Laboratories aerospace engineering programmable data acquisition TX/EN 873
Laboratories aquatic ecology NY/BZ 607
Laboratories Astronomy Video Tapes SC/PH 798
Laboratories chemistry analytical, physical inorganic NY/CH 574
Laboratories chemistry Atomic Absorption Spectrophotometry Polarography PA/CH 786
Laboratories chemistry mass spectrometer NMR KY/CH 320
Laboratories chemistry physics computer interface NY/PH 595
Laboratories computer aided psychology biology TX/IN 862 TX/PS 860
Laboratories computer cognitive physchology courses FL/PS 165
Laboratories engineering science WY/EN 953
Laboratories experimental design course MA/BZ 399
Laboratories microbiology non-science majors IL/BZ 230
Laboratories organic project-oriented NY/CH 615
Laboratories organic-analytical chemistry nuclear magnetic resonance LA/CH 334
Laboratories physics microwave FL/PH 170
Laboratories physiology animal plant biology majors NM/BZ 540
Laboratories physiology audiovisual demonstrations pre-health professions NE/BZ 495
Laboratories production safety engineering MO/ZZ 482
Laboratories: Infrared, visible, ultraviolet spectrophotometers for science and non-science majors TN/CH 821
Laboratories: Process dynamics and control experiment development OH/EN 708
Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Laboratory aerial photo interpretation environment IL/SZ 237
Laboratory alternatives biology GA/BZ 184
Laboratory anatomy physiology format LA/BZ 331
Laboratory animal physiology comparative OH/BZ 696
Laboratory apparatus perception psychology teaching IL/PS 223
Laboratory applied acoustics measurements minicomputer IL/PH 219
Laboratory assistance videotapes for life science CA/BZ 73
Laboratory assisted biology and chemistry for two-year college NC/IN 638
Laboratory astronomy teaching aids SD/PH 811
Laboratory automation computer science instruction minicomputer NM/CS 539
Laboratory automation: Instrumental analysis incorporating mass spectroscopy and modular electronic instrumentation PA/CH 749
Laboratory basic equipment physiological psychology TX/PS 843
Laboratory biochemical refrigerated centrifuge ID/IN 192
Laboratory biochemistry cold room LA/CH 344
Laboratory biochemistry equipment ID/CH 197
Laboratory biochemistry instrumentation AL/CH 5
Laboratory biochemistry radioisotopes metallic studies TX/ZZ 853
Laboratory biochemistry separate course VT/CH 884
Laboratory biochemistry women MA/BZ 381
Laboratory biofeedback undergraduate independent research OH/PS 670
Laboratory biology experiences PA/BZ 788
Laboratory breadboard Heath AR/PH 36
Laboratory breadboard Heath Co. MI/IN 423
Laboratory cell biology PA/BZ 751 TX/BZ 856
Laboratory cell physiology biochemistry AR/IN 34
Laboratory centered: Principles of biomedical electronic instrumentation NY/PH 598
Laboratory chemical engineering OK/EN 729
Laboratory chemical engineering analytical equipment TN/EN 825
Laboratory chemical engineering computer-aided MO/EN 488
Laboratory chemical equipment OR/CH 744
Laboratory chemistry audiovisual materials data assessment MN/CH 442
Laboratory chemistry biologically oriented MA/CH 380
Laboratory chemistry computer data collection OH/CH 683
Laboratory chemistry interfacing microcomputer instruments PA/CH 787
Laboratory chemistry physical data handling VA/CH 908
Laboratory chemistry Piaget science majors LA/CH 346
Laboratory chemistry Piagetian science majors MS/CH 462
Laboratory circuit hybrid thick film PA/EN 761
Laboratory cognitive psychology computer PA/PS 784
Laboratory colorimetry spectroscopy textile science KS/ZZ 302
Laboratory computations land surveying measurements LA/EN 338
Laboratory computer hardware software MN/CS 451
Laboratory computer information processing psychology PA/PS 765
Laboratory computer quality foods OR/ZZ 735
Laboratory computer-based general statistics AL/MA 7
Laboratory computer-based numerical analysis KS/CS 306
Laboratory control systems electrical, mechanical, chemical engineering OH/EN 669
Laboratory course biochemistry KY/CH 318

Laboratory course developmental psychology OH/PS 686
Laboratory course in modern practical optics UT/PH 881
Laboratory course in physiological psychology PA/PS 755
Laboratory course microprocessor IN/EN 253
Laboratory courses in cell biology with emphasis on immunology VA/BZ 905
Laboratory Courses in Modern Analytical and Physical Chemistry PA/CH 782
Laboratory data acquisition: Computer assisted mechanical systems analysis and synthesis laboratory NH/EN 513
Laboratory data processing: Computer interface to upgrade undergraduate chemistry and physics laboratories NY/PH 595
Laboratory dietetics nutrition, food science, IN/ZZ 255
Laboratory digital design computer engineering WI/EN 937
Laboratory digital electronics computer NC/PH 637
Laboratory dynamics control systems mechanical engineering students AZ/EN 25
Laboratory electromagnetic specification optometry students TN/PH 823
Laboratory electronic technology MI/IN 423
Laboratory electronics electromechanical technology OK/EN 721
Laboratory electronics instrumentation life sciences PA/PH 785
Laboratory electronics non-calculus introductory AR/PH 36
Laboratory electronics technology TX/PH 842
Laboratory engineering electric power MO/EN 483
Laboratory engineers biomedical transducers IL/EN 234
Laboratory enrichment physiology NJ/BZ 530
Laboratory environmental chemistry electron capture gas chromatography NY/IN 578
Laboratory environmental engineering VA/EN 895
Laboratory environmental research NY/CH 577
Laboratory equipment acoustics electronics WI/PH 944
Laboratory equipment for comparative physiology MN/BZ 446
Laboratory equipment for comparative physiology and neurophysiology CT/BZ 140
Laboratory equipment for integrated junior and senior chemistry laboratory MN/CH 441
Laboratory equipment for physical chemistry labs IL/CH 202
Laboratory equipment for polymer processing MA/EN 394
Laboratory equipment geology MA/EZ 382
Laboratory equipment meteorological WA/ZZ 921
Laboratory equipment microbiological NJ/BZ 519
Laboratory equipment program biochemistry MO/IN 480
Laboratory equipment teaching perception, operant conditioning, psychobiology, and statistics KY/PS 321
Laboratory estuarine studies transport vehicle FL/IN 153
Laboratory experience resource center IN/ZZ 251
Laboratory experiences in the exercise sciences AZ/BZ 32
Laboratory experiences therapeutic exercise MA/ZZ 370
Laboratory experimental psychology computer controlled MS/PS 469
Laboratory experimental psychology undergraduate NC/PS 640
Laboratory experiments science computer control MD/IN 361
Laboratory experiments: Microprocessor system design for undergraduate electrical engineers MO/EN 484
Laboratory field marine college students FL/BZ 158
Laboratory fluid mechanics engineering IL/EN 203
Laboratory fluid mechanics open channel flow OR/EN 733
Laboratory fluid power systems MI/EN 401
Laboratory fluorescent microscope microbiology immunology WI/BZ 962
Laboratory food engineering technology KS/EN 300
Laboratory for statistical communication theory DC/EN 150
Laboratory Fortran software Digital Equipment OH/CH 683
Laboratory genetics biology majors MI/BZ 419
Laboratory genetics molecular, population MA/BZ 386
Laboratory geology OK/EZ 724
Laboratory health physics equipment purchase TN/PH 824
Laboratory hearing science Starkey AZ/ZZ 23
Laboratory hearing science Starkey Laboratories MI/PS 414
Laboratory holographic equipment engineering technology WI/PH 939
Laboratory holography Metrologic MO/PH 477
Laboratory human research psychology AR/PS 38
Laboratory improvement biochemical CO/CH 108
Laboratory improvement physics MO/PH 477
Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
Laboratory instruction chemical audiovisual improvement NJ/CH 516
Laboratory instruction computer assisted MA/EN 392
Laboratory instruction economics OH/CH 664
Laboratory instruction in modern scientific techniques for physics students OH/PH 684
Laboratory instruction physics introductory AL/PH 2
Laboratory instruction: Color video tapes made for engineering courses OK/EN 714
Laboratory instruction: Computer graphics for instructional use MN/EN 454
Laboratory instruction: LAP dissolve slide presentations for organic chemistry laboratory NE/CH 497
Laboratory instrument programming system Coulbourn TX/PS 879
Laboratory instrumentation VA/EN 909
Laboratory instrumentation biochemistry MN/CH 456
Laboratory instrumentation for health science chemistry OK/CH 710
Laboratory instrumentation for health science, biology, and related fields PA/ZZ 766
Laboratory instrumentation two year college MA/PH 377
Laboratory introductory neurobiology MN/IN 434
Laboratory introductory technician training biochemistry AL/IN 16
Laboratory investigation: Optional activities for undergraduate animal biology students OK/BZ 719
Laboratory life computer extended biology NY/BZ 562
Laboratory machinery electrical engineering KY/EN 322
Laboratory manuals, lecture, vertebrate physiology NY/BZ 593
Laboratory materials testing RI/EN 793
Laboratory measurements electrical physical ME/PH 352
Laboratory mechanical engineering NM/EN 541
Laboratory mechanical engineering: Gas turbine and digital data acquisition system OK/EN 730
Laboratory mechanical vibrations OH/EN 703
Laboratory metallography heat treatment SC/EN 807
Laboratory methods and instruments for introductory biology students NY/BZ 570
Laboratory microbiology, genetics, physiology PA/BZ 789
Laboratory microcomputer computer education NV/CS 505
Laboratory microcomputer computer scientists engineers NH/CS 514
Laboratory microcomputer electrical engineering NJ/EN 521
Laboratory microcomputer system design TX/CS 847
Laboratory microcomputer systems computer hardware IN/EN 266
Laboratory microprocessor IN/EN 252
Laboratory microprocessor computer lecture course VA/CS 913
Laboratory microprocessor design KY/EN 327
Laboratory microprocessor electrical computer engineering TX/EN 876
Laboratory microprocessor electrical engineering PA/EN 757
Laboratory microprocessor mechanical chemical engineers FL/EN 168
Laboratory microwave equipment Hewlett Packard FL/PH 170
Laboratory minicomputer computer science NY/CS 554
Laboratory minicomputer DEC PA/CH 783
Laboratory minicomputer microcomputer hardware software MA/CS 393
Laboratory mining safety operations mining engineering curriculum AZ/EN 29
Laboratory module integrated science TX/IN 839
Laboratory multi-discipline scanning electron microscope MT/EN 489
Laboratory noise control communication, electroacoustic, environmental ME/EN 351
Laboratory nuclear detection gamma spectrometry GA/EN 179
Laboratory operation: Economics of undergraduate laboratory instruction OH/CH 664
Laboratory Optics Non-Physicists MA/PH 374
Laboratory organic chemistry experiments modernization OH/CH 702
Laboratory organic chemistry LAP dissolve slide presentations NE/CH 497
Laboratory organic chemistry modernization TX/CH 840
Laboratory organic chemistry nuclear magnetic resonance spectroscopy IA/CH 273
Laboratory organic chemistry spectrophotometers WA/CH 919
Laboratory organic chemistry updating AL/CH 18
Laboratory organic NMR mass spectroscopy VT/CH 889
Laboratory organic NMR spectroscopy NY/CH 612
Laboratory package physics engineering MS/IN 461
Laboratory perceptual technical students NY/PS 588
Laboratory physical chemistry gel permeation chromatography MN/CH 450
Laboratory physical chemistry life sciences SD/CH 817
Laboratory physics architects AR/IN 37
Laboratory physics computer terminals LA/PH 343
Laboratory physics health students GA/PH 183
Laboratory physics human body health sciences IL/PH 201
Laboratory physics mini-research projects NJ/PH 518
Laboratory physics nuclear VT/PH 887
Laboratory physics nuclear medicine NY/PH 592
Laboratory physics optics laser WI/PH 931
Laboratory physics undergraduate KS/PH 298
Laboratory physiological psychology teaching OK/PS 728
Laboratory physiology anatomy health sciences TX/BZ 837
Laboratory physiology animal sciences WA/BZ 922
Laboratory physiology courses zoology IA/BZ 277
Laboratory physiology data collection analysis TX/BZ 855
Laboratory physiology health science videotaped FM simulations ND/BZ 652
Laboratory planetarium astronomy course IA/ZZ 281
Laboratory plant physiology PA/BZ 780
Laboratory power systems Lab-Volt NC/EN 644
Laboratory power systems miniaturized equipment NC/EN 644
Laboratory process control microcomputer system MS/EN 470
Laboratory projects spray dryer UT/EN 880
Laboratory psychoacoustics MI/PS 414
Laboratory psychology experiments human TN/PS 834
Laboratory psychology instruction in software CO/PS 127
Laboratory psychology training program TX/PS 879

Laboratory radiation NJ/IN 534
Laboratory remedial chemistry using structured open ended inquiry formats CO/CH 109
Laboratory research endocrine glands SD/BZ 818
Laboratory research: Modular materials that assist biology students in investigation IL/BZ 235
Laboratory revision with industrial emphasis MI/CH 422
Laboratory science history MN/IN 452
Laboratory science philosophy IL/ZZ 206
Laboratory semiconductor material device NY/EN 628
Laboratory sensory psychology measurement techniques MA/PS 383
Laboratory simulation of electric power transmission systems TN/EN 822
Laboratory simulations in two-year, private liberal arts college OK/IN 722
Laboratory simulator automated industrial IN/EN 254
Laboratory social science equipping KS/SZ 311
Laboratory solar instructional MA/ZZ 371
Laboratory solid state animal behavior PA/PS 760
Laboratory solid state electrical engineers IN/IN 259
Laboratory sophomore programmed logic AZ/EN 31
Laboratory spectroscopic introductory mineralogy AZ/EZ 22
Laboratory Spray-Aire dryer Bowens Engineering Co. UT/EN 880
Laboratory statistics IL/IN 213
Laboratory steam power technology engineering OK/EN 717
Laboratory stepping motor ME/EN 353
Laboratory study chemical kinetics NY/CH 610
Laboratory support: Computer graphics in physical science classes KS/CH 294
Laboratory synthesis computer assisted mechanical systems analysis NH/EN 513
Laboratory teaching biology SC/BZ 802
Laboratory techniques: Modules in aquatic microbiology for micro= biology, non-microbiology courses NY/BZ 619
Laboratory technique: LAP dissolve slide presentations for organic chemistry laboratory NE/CH 497
Laboratory technology: Undergraduate medical instrumentation laboratory in engineering and allied health CA/EN 67
Laboratory telescope introductory astronomy GA/PH 177
Laboratory thermal fluids VA/EN 903
Laboratory training: Laser applications and modern optics RI/EN 791
Laboratory transport processes engineers NY/EN 603
Laboratory transportation engineering materials TN/EN 826
Laboratory ultracentrifuge molecular biology PA/BZ 750
Laboratory water analysis environmental technology engineering IL/EN 226
Laboratory: Acquisition and manipulation of digital data in physical chemistry NV/CH 506
Laboratory: Audio-tutorial approach in microbiology to encourage student self-direction MI/BZ 420
Laboratory: Behavior analysis and modification with severely dis= turbed children NY/PS 600
Laboratory: High pressure liquid chromatography NY/CH 556
Laboratory: Interactive study group instructional strategy for nutri= tional science TX/BZ 857
Laboratory: Introductory physical geology for law enforcement studies students OH/EZ 679
Laboratory: Medical electronic instrumentation for pre-medical students TN/PH 820
Laboratory: Television and computer graphics assisted freshman chemistry MI/CH 430
Laboratory: Undergraduate experience using modern instrumental techniques in molecular biology IN/BZ 243
Laboratory: Using microcomputers to teach computer organization and programming TX/CS 864
Labs biology computer modules NY/BZ 558
Labs chemistry spectroscopy experiments GA/CH 182
Labs elementary statistics NY/MA 579
Labs physics experiments TX/PH 846
Labtron miniature right and left handed micromanipulators mm-3 MN/IN 434
Lab-Line environmental chamber NC/ZZ 651
Lab-Line Inc. Magnestir magnetic stirring motors TX/IN 848
Lab-Volt electric power transmission system 8110-8942 NC/EN 645
Lab-Volt power systems laboratory NC/EN 644
Lafayette animal cages and stands A-75, A-75AS, A-75BS NC/PS 640
Lafayette Co. operant chambers KY/PS 321
Lafayette deluxe student operant behavior systems 84022 NC/PS 640
Lafayette Dynacom walkie-talkies OH/EZ 680
Lafayette electronic tachistoscopic attachment 43016 TX/PS 879
Lafayette Instrument Co. Bassin anticipation timer 50-575 AZ/BZ 32
Lafayette Instrument Co. photocell control system AZ/BZ 32
Lafayette Instrument Co. stability platform 16020 AZ/BZ 32
Lafayette Instrument Co. 16mm analyzer projector with stop action AZ/BZ 32
Lafayette Instrument multiple choice reaction time 63013 IL/PS 223
Lafayette Instruments photoelectric slide reader projector 44020 AR/PS 38
Lafayette reaction time apparatus, multiple choice, 63013 MS/BZ 471
Lafayette time motion projector AAP-3021 MO/ZZ 482
Lafeyette Co. audio signal generator, amplifier and speaker 15015 NY/PS 588
Lake Michigan biota environment IL/BZ 209
Lambda diffusion resistance meter CT/BZ 138
Lambda diffusive resistance meter SD/BZ 813
Lambda Instrument resistance meter NM/BZ 540
Lambda leaf area meter CT/BZ 138
Lambda light meter quantom CT/BZ 138
Lambda quantum sensor, pyranometer sensor, photometric sensor NM/BZ 540
Laminar flow hood Biogard MA/BZ 399
Lamina: flow hood BioQuest OK/BZ 718
Laminar flow hoods Integrated Air Systems Inc. UT/BZ 882
LaMotte Chemical Co. air pollution pump and associated kits NC/ZZ 651
Lamotte soil test outfit STH-14 AZ/EZ 27
Lamphouse fluorescence tungsten halogen NY/BZ 609
Land surveying measurements and computations laboratory LA/EN 338
Land use planning: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Land use planning: Remote sensing for forestry students IL/EZ 220
Landsat imagery student interpretation NC/EZ 649
Landsat: Interpretation of satellite imagery by computer quantitative methods NY/EZ 614
Lange skinfold calipers NY/BZ 566
Language pathology: Scientific equipment for speech and hearing science undergraduate instruction AZ/ZZ 23
Languages computer teaching interactive displays IN/CS 245
Language: Sensory basis of art and human communication FL/IN 172
Lanier Edisette dictaphone IA/PS 289
Lansford Publishing Co. statistics transparencies OH/MA 694
LAP dissolve slide presentations for organic chemistry laboratory NE/CH 497
LAP dissolve unit Kodak NE/CH 497
Lap dissolve unit Spindler Saupe ND/BZ 658
LAP dissolved models organic chemistry GA/CH 185
Lap-dissolve for use in teaching in the biological sciences ND/BZ 658
LAP-dissolve projection lecture vitalization NY/CH 590
Large screen interactive displays in teaching computer languages IN/CS 245
Laser applications and modern optics RI/EN 791
Laser HeNe Metrologic PA/PH 773
Laser He-Ne Metrologic SD/PH 819
Laser Metrologic IL/IN 229 MO/PH 477
Laser optics physics laboratory WI/PH 931
Laser power meter Spectra Physics WI/PH 931
Laser Precision Corp. power meter and radiometer RK 3440 RI/EN 791
Laser Spectra Physics WI/PH 931
Laser spectrum analyzer Spectra Physics WI/PH 931
Lasers He-Ne Spectra Physics RI/EN 791
Lasers: Applied optics for liberal arts students ID/PH 193
Lasers: Laser applications and modern optics RI/EN 791
Lasers: Update of holographic laboratory equipment for engineering technology students WI/PH 939
Laue camera Phillips WI/IN 951
Law enforcement studies physical geology OH/EZ 679
LA36 DECWriter terminal GA/IN 176
LC injector universal Waters PA/CH 758
LCR meter Hewlett Packard NY/EN 628
Leaf area meter Lambda LI-3000 CT/BZ 138
Leaf taxonomy experiment: Integrated science laboratory module improvement TX/IN 839
Lear Seigler ADM 3A terminal GA/IN 176
Lear Seigler display terminal ADM-3 OR/PH 742
Lear Siegler ADM-3 terminals LA/PH 343
Lear Siegler ADM-3A computer terminal LA/BZ 337 MN/CH 449
Lear Siegler ADM-3A computer terminals KY/PS 321
Lear Siegler ADM-3A terminal PA/EN 757
Lear Siegler Co. CRT terminals ADM 3A WY/BZ 954
Lear Siegler crt ADM-3A VA/CS 912
Lear Siegler dumb terminal with 24-line 1920 character option TX/PS 860
Lear Siegler Inc. CRT terminal ADM 3A TX/CS 864
Lear Siegler Inc. video display terminal ADM-3A NC/EN 645
Learning center biology SC/BZ 809
Learning center integrated mini-micro NE/CS 502
Learning concepts of therapeutic exercise through specialized labora= tory experiences MA/ZZ 370
Learning cycles: Piagetian based introductory chemistry laboratory for science majors MS/CH 462
Learning environment undergraduate restructuring HI/CH 188
Learning mastery students animal anatomy physiology AZ/BZ 30
Learning module AVO-40W Synsor TI video cassette AL/MA 9
Learning module Howe Singer AL/MA 9
Learning packages: Individually designed educational activities for teaching introductory psychology NY/PS 552

Learning theory and principles: Experimental psychology laboratory for undergraduate instruction NC/PS 640
Learning: Experimental psychology laboratory training program TX/PS 879
Learning: Human research laboratory for junior level psychology majors AR/PS 38
Learning, psychology, laboratory LA/PS 339
Lebow 3132-1K 1000lb. load cells MI/PH 429
Lecture demonstration: Television and computer graphics assisted freshman chemistry MI/CH 430
Lecture series: Process approach to understanding human perceptual and motor behavior IA/PS 289
Lecture support: Computer graphics in physical science classes KS/CH 294
Lecture system Polaroid demonstrations center PA/PH 767
Lecture vitalization using LAP-dissolve projection NY/CH 590
Lecture, laboratory manuals, and audiovisual aids in vertebrate physiology NY/BZ 593
Leeds and Northrup electrolytic resistance indicator 4960 OK/EN 729
Leeds and Northrup precision millivolt potentiometer 8686 OK/EN 729
Leeds and Northrup 12-channel strip chart recorders NM/EN 541
Leitz Dialux polarizing microscope PA/EN 776
Leitz macro projector MD/BZ 359
Leitz metallographic microscope SC/EN 807
Leitz stereo microscope SC/EN 807
Lens video camera Canon OH/BZ 700
Lenses camera Nikon MA/CH 384
Lesion generator David Kopf R-F MO/BZ 472
Lessons computer aided graphic communications architecture students AZ/IN 28
Lessons economics computer assisted IN/SZ 260
Level meter sound Quest Electronics AR/IN 37
Level Rad sound Gen and MO/ZZ 482
Lexington Instrumenta Lex-O_2-Con-TL-oxygen content NM/BZ 540
Lex-O_2-Con-TL-oxygen content Lexington Instruments NM/BZ 540
Leybold hydraulic press 361-10 AR/IN 37
Leybold wind tunnel 373-19 AR/IN 37
LHASA: Computer assisted teaching of organic synthesis MA/CH 389
Liberal arts science curriculum microcomputers SD/PH 812
Liberal arts students applied optics ID/PH 193
Liberal arts: Thematic approach to undergraduate social science curriculum VA/SZ 906
Library program chemistry computer NJ/CH 533
Library video developmental psychology MA/PS 388
Library: Structure determination using spectra and on-line bibliographic retrieval systems IL/IN 204
Licensed practical nursing program scientific equipment AK/BZ 20
Lico Data Measuring System DMS-41 MA/EZ 396
Lietz transit Bt-20-149180 CA/SZ 104
Life laboratory computer extended biology NY/BZ 562
Life science ethics honors program NJ/IN 537
Life science majors: Electronics with biomedical applications MN/PH 453
Life science students physics MI/PH 416
Life science videotapes CA/BZ 73
Life sciences ecology laboratory NE/BZ 499
Life sciences electronics instrumentation laboratory PA/PH 785
Life sciences physical chemistry AR/CH 39
Life sciences physical chemistry laboratory SD/CH 817
Life scientists mathematics TX/MA 872
Life time measurement: Basic principles applied radiation physics NY/PH 599
Life-form Nasco human shoulder LA/BZ 333
Light beam chopper Ithaco IN/IN 259
Light section microscope Carl Zeiss PA/EN 761
Lighting: Physics laboratory for architects AR/IN 37
Lightnin' Mixer Mixing Equipment Inc. OK/EN 729
Limnology estuarine ecology, comparative physiology lab curricula NY/BZ 563
Limnology: Equipment for laboratories in aquatic ecology NY/BZ 607
Limnology: Techniques for studying the Lake Michigan biota and environment IL/BZ 209
Lindberg heat treating furnace 53000 WY/EN 953
Line clock Digital Equipment Corp. WV/CS 925
Line printer Data Printer NY/CS 554
Line printer Houston Instrument IN/EN 252
Line printer IBM MD/MA 357
Line printer Printronix FL/PS 165
Line printer Wang KS/MA 296
Linear air track Ealing SD/PH 819
Linear algebra: Mathematics and computing for undergraduate marine scientists NY/MA 572
Linear fraction collector ISCO Golden Retriever IN/BZ 243
Linear log recorder anodic stripping electrocell McKee Pederson MN/CH 441
Linguistics: Multidisciplinary university introduction to children as a research topic CA/SZ 91
Liquid chromatograph AL/CH 5
Liquid chromatograph Altex IL/CH 202
Liquid chromatograph Gow Mac CA/CH 50
Liquid chromatograph Gow-Mac MA/CH 380
Liquid chromatograph high pressure Waters NY/CH 556
Liquid chromatograph Perkin Elmer CA/EN 53 IN/CH 263 KS/CH 309
Liquid chromatograph Varian OR/CH 744
Liquid chromatography high performance MI/CH 412
Liquid chromatography high performance detector Waters Associates MI/CH 412
Liquid chromatography high performance pump Waters Associates MI/CH 412
Liquid chromatography high performance solvent programmer Waters Associates MI/CH 412
Liquid chromatography-high pressure NY/CH 556
Liquid scintillation counter allied equipment IA/BZ 276
Liquid scintillation counter Beckman CO/CH 108 IA/BZ 276 MA/BZ 381 MA/BZ 399 MD/IN 360 MO/IN 480 NY/BZ 549
Liquid scintillation counter Beckman Instruments MN/CH 445
Liquid scintillation counter Searle NJ/IN 534
Liquid scintillation counting experiments for chemistry and biology majors MN/CH 445
Liquid scintillation spectrometer Beckman TX/ZZ 853
Literacy computer geology MA/EZ 395
Living plant and animal specimens CO/BZ 114
Li-Cor radiometer photometer with underwater quantum sensor LI-185 CA/BZ 82
LKB disc gel electrophoresis power supply 2121-010 ID/CH 197
LKB fraction collector ID/CH 197
LKB fraction collector Redi Rac MN/CH 456
LKB Instruments fraction collector WI/IN 946
LKB peristaltic pump 2115-001 ID/CH 197
Load cells Lebow MI/PH 429
Load tester ATS creep frame CA/EN 53
Loader bootstrap Digital Equipment Corp. WV/CS 925
Locational analysis in undergraduate geography and urban planning IA/SZ 291
Locational analysis: Computer cartography in undergraduate geography IA/SZ 290
Lock decoupler accessory for NMR in chemistry labs KY/CH 326
Lock decoupler attachment NMR AL/CH 18
Lock decoupler Varian OH/CH 705
Lock in amplifier Princeton Applied Physics GA/PH 181
Lock spin-spin decoupler Perkin Elmer MA/CH 373
Lock-in amplifier Keithley NJ/PH 518
Lock/decoupler Varian MD/IN 361
Logarithmic theory: Equipment enhancement of general and organic chemistry courses AL/CH 8
Logic analyzer formatter Tektronix KY/EN 327 MO/EN 486
Logic analyzer Hewlett Packard KY/EN 327
Logic analyzer Tektronix MO/EN 483 OR/EN 740
Logic audiometric modules Coulbourn Instruments AR/PS 38
Logic gates: Purchase of instruments for teaching electronics in physics laboratory CA/PH 77
Logic lab Hewlett Packard IN/EN 254
Logic probes NJ/EN 517
Logic processor Prolog Corp. power supplies, interface cards OR/EN 732
Logic programmed sophomore laboratory AZ/EN 31
Logic state analyzer HP 1607 CO/EN 111
Logic state analyzer HP 1611 CO/EN 111
Logic trainer Hickok AR/CS 35
Logical skills: Adaptive evaluation structure for computer based instruction IA/SZ 292
Logic: Digital systems and microcomputer laboratory CO/EN 125
Logimetrics rf signal generator 920B NJ/PH 518
Lomb Bausch spectrophotometer 6890XY AL/CH 8
Loudspeaker dispersion: Senior laboratory in applied acoustics measurements with minicomputer assistance IL/PH 219
Loudspeaker telephone: Consultant prepared data-based reading assignments for political science mini-courses OH/SZ 676
Low cost microcomputer controllers, use, and applications CA/EN 97
Low cost: Scanning electron microscope for multi-discipline undergraduate laboratory classes MT/EN 489
Low cycle fatigue testing: Dynamic test system for engineering materials and soils CO/EN 126
LPN program: Scientific equipment for licensed practical nursing program AK/BZ 20
LSI laboratory experiments: Undergraduate instructional equipment for electrical engineering and computer science MO/EN 486
Lumex Cybex II isokinetic dynamometer MA/ZZ 370
Lumex Inc. Cybex II isokinetic strength testing device AZ/BZ 32
L-W International Model 200 variable speed projector CT/PS 134
M Motorola MI/EZ 432
Machinery electric Hampden Engineering Corp. KY/EN 322
Machinery laboratory: Power systems laboratory to simulate systems using miniaturized equipment NC/EN 644
Machinery noise: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Macro assembler relocatable Motorola Semiconductor Products MN/CS 451
Macro projector Leitz MD/BZ 359
Macrobenthic identification: Aquatic ecology for liberal arts undergraduate women VA/IN 901

Magnaflux KH-15 magnetic particle tester IN/EN 268
Magnaflux Magnaglo kit IN/EN 268
Magnaflux PS-702 ultrasonic test instrument IN/EN 268
Magnaglo kit Magnaflux IN/EN 268
Magnavox TV color camera chromavue ICV-400 MA/ZZ 391
Magnavox TV color monitors DG 8812 MA/ZZ 391
Magnestir magnetic stirring motors Lab-Line Inc. TX/IN 848
Magnet Ealing OH/PH 691
Magnet power supply Ealing OH/PH 691
Magnet superconducting Superconducting Technology Inc. OH/PH 684
Magnet wire Westinghouse HOK TN/EN 822
Magnetic particle tester Magnaflux IN/EN 268
Magnetic stirring motors Magnestir Lab-Line Inc. TX/IN 848
Magnetic susceptibility meter Elliot geophysical HI/EZ 189
Magnetic tape Digital Equipment Corp. CA/EN 84
Magnetic tape subsystem Digital Equipment Corp. WV/CS 925
Magnetic-particle, materials testing IN/EN 268
Magnetism: Experiments for freshman and sophomore physics labs TX/PH 846
Magnetism: Improvement of instruction through the semi-paced teaching method KY/EN 328
Magnetometer proton Varian OH/EZ 693
Magnetometers Unimag proton precession Geometrics HI/EZ 189
Mainframe oscilloscope Tektronix MO/EN 483
Maintenance computer electronic technicians AR/CS 35
Mako 19ft. outboard boat with 115 h.p. motor MD/BZ 359
Mako 23ft boat with 2 70 h.p. Mercury engines IL/BZ 209
Mammalian physiology: Curriculum development in plant, animal, and microbial physiology SD/BZ 813
Man ascent honors students non-science OH/IN 704
Management computer precalculus IA/MA 274
Management modules water educational system NY/EN 623
Management population computer simulated KS/BZ 301
Management unit memory Digital Equipment Corp. WV/CS 925
Manuals, lecture, laboratory vertebrate physiology NY/BZ 593
Manufacturing applications interactive graphics NM/CS 542
Manufacturing computer aided engineering PA/EN 769
Manufacturing engineering design teaching modules IN/EN 269
Manufacturing: Computer assisted laboratory instruction MA/EN 392
Map data transfer equipment optical MA/EZ 367
Map scales: Optical equipment for transfer of map data MA/EZ 367
Map storage cabinet Hamilton CA/SZ 104
Mapping cartographic graphic terminal KY/EZ 329
Mapping computer cultures OR/SZ 737
Maps thematic computer assisted introduction TN/EZ 830
Marietta Apparatus sound cage 75A-16-1A IL/PS 223
Marietta Apparatus, stereoscope Wheatstone type 75A-19-2 IL/PS 223
Marietta Co. cutaneous sensitivity and two-point threshold kit 75A-KT-106 NY/PS 588
Marine biology and geology: Undergraduate oceanographic curriculum rice university TX/EZ 845
Marine biology field experience women MD/BZ 359
Marine biology undergraduate research program CA/BZ 82
Marine biology: Independent field marine laboratory for two-year college students FL/BZ 158
Marine biology: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Marine biology: sampling mud organisms and water sample measurements CA/BZ 68
Marine cultures: Nogero subsistence and ecology OR/IN 738
Marine engineering: Options in junior and senior year in professional courses NY/EN 633
Marine environment: Independent field marine laboratory for two-year college students FL/BZ 158
Marine field laboratory college students FL/BZ 158
Marine science educational equipment SC/IN 808
Marine science fluorometric determination of chlorophyll and water movement NY/ZZ 573
Marine science: Science laboratory project in support of community research needs CA/BZ 66
Marine scientists mathematics computing NY/MA 572
Marinovich 16ft. balloon trawl MD/BZ 359
Mark Co. Scholander respirometer NY/BZ 563
Markov chains: Modules in probability with computing NH/MA 509
Marley Co. cooling tower 4627 OK/EN 717
Martek salinity temperature depth recorder TX/EZ 845
Martek water analyzer Mark IIB SC/IN 808
Mash II automated culture apparatus NJ/ZZ 528
Mass difusion: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Mass flow instrument Datametrics NH/EN 513
Mass media: Training undergraduate science majors in science reporting NY/IN 602
Mass spectrometer and NMR for undergraduate chemistry laboratories KY/CH 320
Mass spectrometer Ealing IL/PH 207
Mass spectrometer for undergraduate chemistry instruction KY/CH 323
Mass spectrometer gas chromatograph chemistry laboratories CA/CH 62
Mass spectrometer organic chemistry WI/CH 936
Mass spectrometer Varian CA/CH 50 CA/CH 76 KY/CH 320 KY/CH 323 NY/CH 630 PA/CH 749 PA/CH 783 TX/CH 835 TX/CH 863 VA/CH 893 VA/CH 899 VT/CH 889
Mass spectrometer Varian EM-600 CA/CH 45 KY/CH 316
Mass spectrometer Varian Instruments OR/CH 741
Mass spectrometer with microcomputer interface for undergraduates TX/CH 835
Mass spectrometers interactive microprocessor simulation NY/CH 583
Mass spectrometry analytical organic chemistry NY/CH 630
Mass spectrometry for undergraduates using a Varian EM-600 TX/CH 863
Mass spectrometry spectrometric analysis course OR/CH 741
Mass spectrometry technical training NY/CH 626
Mass spectroscopy for undergraduate science majors VA/CH 893
Mass spectroscopy in undergraduate chemistry CA/CH 45
Mass spectroscopy instrumental analysis PA/CH 749
Mass spectroscopy NMR organic laboratory VT/CH 889
Mass transfer: Mechanical engineering undergraduate laboratory NM/EN 541
Mass transfer: Transport processes laboratory for undergraduate engineers NY/EN 603
Master recorder Sound Pages audio printer NE/MA 503
Mastery learning for students in animal anatomy and physiology AZ/BZ 30
Mastery learning with computer assisted testing OH/CH 673
Mastery: Improvement of biological science for the elementary teacher AZ/BZ 24
Matching funds for purchase of a gravity meter OH/EZ 706
Material balances: Computer-based PLATO instruction in chemical engineering IL/EN 231
Material parameter based performance: Semiconductor material and device project laboratory stressing data validation NY/EN 628
Material testing data acquisition Minicomputer GA/EN 180
Materials laboratory transportation engineering TN/EN 826
Materials properties courses CO/EN 113
Materials recycling course development OH/EN 668
Materials reference AK/BZ 20
Materials science course improvement reading skills AZ/CH 26
Materials science: Short courses on special topics in physics NY/PH 616
Materials system mechanics Technovate Corp. RI/EN 793
Materials technology physics OH/PH 681
Materials testing instrument MTS CO/EN 126
Materials testing laboratory for small group instruction RI/EN 793
Materials testing ultrasonic, magnetic-particle, penetrant, radiographic IN/EN 268
Materials testing: Materials testing laboratory for small group instruction RI/EN 793
Math anxiety: Initiation of a review and remedial math clinic IA/MA 271
Math clinic review remedial IA/MA 271
Mathemathetical models elementary computer-assisted MT/MA 492
Mathematical applications modules MD/MA 358
Mathematical biology for physical science and engineering majors VA/MA 897
Mathematical derivations chemistry computer-generated audio-visual aids NJ/CH 520
Mathematical modeling: Application of modern quantitative techniques to biological problems NY/BZ 632
Mathematical modelling problems NC/MA 641
Mathematical reasoning: Laboratory remedial chemistry using structured open ended inquiry formats CO/CH 109
Mathematical weak backgrounds algebra MI/MA 433
Mathematics and computing for undergraduate marine scientists NY/MA 572
Mathematics computer aided instruction GA/IN 176
Mathematics courses computer FL/MA 171
Mathematics engineering applications problem modules WV/MA 926
Mathematics for students in the allied health technologies VA/MA 910
Mathematics freshman sophomores tutorial MN/MA 448
Mathematics history modules NY/MA 565
Mathematics instruction computer graphic modules FL/MA 162
Mathematics instruction remedial, tutorial, augmented self paced audiovisual AL/MA 9
Mathematics life scientists TX/MA 872
Mathematics majors: New Optics Laboratory Course for Non-Physicists MA/PH 374
Mathematics problems from regional industries for undergraduate majors OK/MA 713
Mathematics science instruction TX/IN 841
Mathematics students: Laboratory instrumentation for health science, biology, and related fields PA/ZZ 766
Mathematics teaching computer audiovisual equipment AL/MA 6
Mathematics: Audio-tutorial minicourses for college algebra and trigonometry IN/MA 249
Mathematics: Competency-based self-paced algebra for students with weak mathematical backgrounds MI/MA 433
Mathematics: Computer applications of calculus MS/MA 468

Mathematics: Computer approach to abstract algebra MN/MA 457
Mathematics: Computer assisted course in biomathematics MI/MA 418
Mathematics: Computer assisted instruction in intermediate algebra for business students MA/MA 369
Mathematics: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Mathematics: Computer assisted instruction modules for calculus and linear algebra SC/MA 799
Mathematics: Computer assisted instruction modules in elementary algebra TN/MA 829
Mathematics: Computer generated TV displays for low resolution class-room instruction WA/MA 916
Mathematics: Computer oriented calculus using finite differences and discrete models NY/MA 622
Mathematics: Computer-assisted elementary mathemathetical models for now-math majors MT/MA 492
Mathematics: Computer-based laboratory for general statistics AL/MA 7
Mathematics: Exploiting programmable calculators and plotter combinations IA/MA 287
Mathematics: Feasibility study of self-paced algebra and trigonometry for college NE/MA 503
Mathematics: First year calculus with computer CT/MA 145
Mathematics: Hand-held calculators for courses in statistical methods MT/MA 493
Mathematics: Improvement in statistics instruction using calculators NY/MA 621
Mathematics: Improving data skills of sociology students through computer-assisted homework VA/SZ 900
Mathematics: Initiation of a review and remedial math clinic IA/MA 271
Mathematics: Mathematical biology for physical science and engineering majors VA/MA 897
Mathematics: Modeling problems from local industry OH/MA 682
Mathematics: Modular and multimedia approach to introductory statistics OH/MA 694
Mathematics: Modularizing an elementary statistics course for behavioral science students IA/MA 270
Mathematics: Modules in probability with computing NH/MA 509
Mathematics: Multidisciplinary science study project center for two-year college OR/IN 748
Mathematics: Portable minicomputer KS/MA 296
Mathematics: Restructuring the undergraduate learning environment HI/CH 188
Mathematics: Small computer for students and faculty in several departments CA/IN 67
Mathematics: Talking pages to supplement large class instruction OK/MA 727
Mathematics: Team taught interdisciplinary statistics with multimedia labs CA/MA 49
Mathematics: Undergraduate mathematical modelling problems NC/MA 641
Mathematics: Undergraduate statistics laboratory IL/IN 213
Mathematics: Unified lectures with diacipline-differentiated labs for elementary statistics NY/MA 579
Mathematics, improved instruction computers MD/MA 357
Mathematics, teaching improvement IL/IN 205
Matter condensed transport phenomena GA/PH 181
Maxivan Dodge IL/BZ 209
Maxwellian optical stimulator color vision MA/PS 383
Mayan indians: Data analysis exercises in anthropology MN/SZ 447
Mayan indians: Self paced video and computer assisted instruction in ethnography CA/SZ 93
McKee Pedersen Instruments system consoles PA/CH 782
McKee Pedersen modular electronic analytical instrumentation PA/CH 749
McKee Pedersen scanning czerney turner 0.45 meter monochromator PA/CH 749
McKee Pederson anodic stripping electrocell linear log recorder MN/CH 441
McKee Pederson electroanalytic module MN/CH 441
McKee Pederson monochromator MP-1018B NJ/PH 518
McPherson grating spectrometer EU-700 RI/EN 791
Measurement and evaluation: Improvement of teaching in science, mathematics, and social sciences IL/IN 205
Measurement based freshman lab: Integrated science laboratory module improvement TX/IN 839
Measurement of intracellular and extracellular bioelectrical potentials ND/BZ 655
Measurement of physiological responses: Integrated science laboratory module improvement TX/IN 839
Measurement system Medical Pasco Scientific GA/PH 183
Measurement system thermal Dynatch KS/EN 300
Measurement techniques sensory psychology laboratory MA/PS 383
Measurements electronic for GA/PH 175
Measurements in environmental science TX/IN 848
Measurements laboratory electrical physical ME/PH 352
Measurements land surveying computations laboratory LA/EN 338
Measurements minicomputer applied acoustics laboratory IL/PH 219
Measurements physical electronic instrumentation TX/PH 849
Measurement: Computer assisted mechanical systems analysis and synthesis laboratory NH/EN 513
Measuring microphone Bruel Kjaer AR/PH 40
Measuring System Data Lico MA/EZ 396
Measuring system data Phillips WI/IN 951
Meat: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Mechanical and Hydraulic Load cells for a compression tester PA/EN 775
Mechanical and Hydraulic load fixtures for a compression tester PA/EN 775
Mechanical design computer graphics TX/EN 865 TX/EN 868
Mechanical engineering computerized data acquisition NY/EN 557
Mechanical engineering energy option IN/EN 265
Mechanical engineering laboratory: Gas turbine and digital data acquisition system OK/EN 730
Mechanical engineering students dynamics control systems laboratory AZ/EN 25
Mechanical engineering undergraduate laboratory NM/EN 541
Mechanical engineering: Audio tutorial self paced experiments open channel flow OR/EN 734
Mechanical engineering: Computer assisted laboratory instruction MA/EN 392
Mechanical engineering: Computer graphics for instructional use MN/EN 454
Mechanical engineering: Computer graphics in mechanical design TX/EN 865
Mechanical engineering: Computer integrated teaching modules for engineering design and manufacturing IN/EN 269
Mechanical engineering: Fluid mechanics laboratory on open channel flow OR/EN 733
Mechanical engineering: Hybrid computer for engineering education SD/EN 816
Mechanical engineering: Senior level environmental air pollutants sampling and monitoring course IN/EN 267
Mechanical engineers microprocessor laboratory FL/EN 168
Mechanical heart simulator Pasco TN/PH 820
Mechanical loading system Technovate Corp. RI/EN 793
Mechanical module system Harvard NJ/BZ 530
Mechanical properties of plastics laboratory CA/EN 53
Mechanical systems analysis computer assisted NH/EN 513
Mechanical vibrations laboratory OH/EN 703
Mechanical, engineering control systems laboratory OH/EN 669
Mechanics fluid engineers IA/EN 280
Mechanics fluid laboratory engineering IL/EN 203
Mechanics materials system Technovate Corp. RI/EN 793
Mechanics of materials: Demonstrations and interdisciplinary laboratories in engineering science WY/EN 953
Mechanics quantum statistical PA/PH 762
Mechanics: Experiments for freshman and sophomore physics labs TX/PH 846
Medial technology uv enzyme kinetics FL/ZZ 161
Medical electronic instrumentation for pre-medical students TN/PH 820
Medical electronic instrumentation packages, Pasco Scientific, MN/PH 453
Medical Electronics Modular Pasco Scientific GA/PH 183
Medical electronics modules Pasco IL/PH 201
Medical electronics: Principles of biomedical electronic instrumentation NY/PH 598
Medical instrumentation laboratory undergraduate CA/EN 57
Medical instrumentation slide tape programs WI/EN 942
Medical instrumentation: Human body physics laboratory for health sciences students IL/PH 201
Medical instruments chart recorders Gould Inc. IL/EN 234
Medical Paraprofessionals Electrophysiological Experiments MA/BZ 368
Medical physics: Undergraduate health physics degree program MO/PH 479
Medical Plastics articulated skeleton SK-1AP1/2 AL/BZ 11
Medical Plastics skull model 50-124 NAPM AL/BZ 11
Medical psychology: Innovative undergraduate course in social psychology and health CA/ZZ 96
Medical technologists undergraduate training chemistry AL/CH 10
Medical technologists: Improving scientific competency for students in allied chemical fields CT/CH 133
Medical technology chemical instrumentation VA/CH 898
Medical technology students: Atomic absorption spectroscopy for analytical chemistry students TX/CH 838
Medical technology: Atomic absorption spectrophotometer for analytical chemistry and advanced projects IN/CH 240
Medical technology: Fluorescent microscope for laboratory work in microbiology and immunology WI/BZ 952
Medical technology: Gamma counter for student instruction in radioimmunoassay NC/ZZ 643
Medical technology: High pressure liquid chromatography teaching tool for undergraduate chemistry IN/CH 263
Medical technology: Human body physics laboratory for health sciences students IL/PH 201
Medical technology: Project type experiments emphasizing molecular biochemistry for pre-professional students ND/CH 654
Medicinal chemistry: Nuclear magnetic resonance spectrometry in undergraduate teaching and research IN/CH 248
Medicine nuclear physics laboratory NY/PH 592
Membrane physiology: Neurophysiological and behavioral experiments in undergraduate organismic biology laboratory MD/BZ 365

Membranes: Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation KY/BZ 315
Memory NJ/CS 532
Memory boards 8K and components for Intercolor terminals TX/PS 860
Memory expansion: Microprocessor laboratory paralleling a computer lecture course VA/CS 913
Memory management option DEC NJ/CS 532
Memory management unit Digital Equipment Corp. WV/CS 925
Memory module MOS Intel TX/EN 876
Memory scope Narco trace MN/IN 434
Memory semiconductor Hamilton Avnet Co. MO/EN 488
Memory system core Fabri-Tek MA/CS 393
Memory trainer Hickok AR/CS 35
Memory words Digital Equipment Corp. WV/CS 925
Mentor N-950 intracellular probe system ND/BZ 655
Mercury engine boat Boston Whaler IL/BZ 209
Mercury engines Mako boat IL/BZ 209
Metabolic assessment: Scientific equipment for foods and nutrition laboratory instruction CA/ZZ 59
Metabolism apparatus Benedict Roth IL/BZ 198
Metabolism: Biochemical methods laboratory CA/IN 95
Metabolism: Comparative animal physiology laboratory OH/BZ 696
Metabolism: Improvement of laboratory instruction in microbiology, genetics, and physiology PA/BZ 789
Metallic studies radioisotopes biochemistry laboratory TX/ZZ 853
Metallographic microscope Leitz SC/EN 807
Metallography laboratory heat treatment SC/EN 807
Metallurgy: Interdisciplinary program in powder X-ray diffraction IL/EZ 236
Metallurgy: Physics and technology of materials OH/PH 681
Meteorological laboratory equipment WA/ZZ 921
Meteorology: Undergraduate meteorological laboratory equipment WA/ZZ 921
Meter Acumet pH Fisher TX/IN 848
Meter air velocity Thermo Systems MO/ZZ 482
Meter atomic survey Baird IN/PH 241
Meter diffusive resistance Lambda SD/BZ 813
Meter dissolved oxygen Yellow Springs OH/BZ 696
Meter dissolved oxygen Yellow Springs Instruments RI/BZ 794
Meter dissolved oxygen YSI FL/BZ 158
Meter earth resistivity Bison HI/EZ 189
Meter electronic distance K and E SC/EN 806
Meter electronic distance surveying SC/EN 806
Meter gravity matching funds OH/EZ 706
Meter gravity Scintrex Ltd. OH/EZ 706
Meter gravity Worden OH/EZ 693
Meter gravity Worden geology geophysics KY/EZ 330
Meter ion Orion Research MA/CH 380
Meter ionization Victoreen MO/PH 479
Meter laser power Spectra Physics WI/PH 931
Meter LCR Hewlett Packard NY/EN 628
Meter magnetic susceptibility Elliot geophysical HI/EZ 189
Meter oxygen Yellowstone TX/EZ 845
Meter pH Accumat Fisher AZ/BZ 21
Meter pH Beckman Chem-Mate MN/CH 456
Meter pH Corning NY/BZ 607 OR/BZ 731 VA/EN 895
Meter pH Fisher Acumet NY/BZ 570
Meter pH Orion TX/CH 844
Meter phaseangle Westinghouse TN/EN 822
Meter power radiometer Laser Precision Corp. RI/EN 791
Meter resistance Lambda Instrument NM/BZ 540
Meter RMS true MA/EN 398
Meter sound level Quest Electronics AR/IN 37
Meter survey Nucleus Inc. NY/PH 599
Meter survey Victoreen MO/PH 479
Meter Texas Instruments Worden gravity KY/EZ 330
Meter total solids Scientific Products Inc. VA/CH 898
Meter volt ohm Simpson PA/PH 773
Meters Automex electronic activity Columbus Instruments LA/PS 339
Meters heat flow FLEX-TRAN AR/IN 37
Meters pH Corning AL/CH 8 ID/CH 197
Meters pH Fisher Accumet PA/EN 776
Meters pH Sargent Welch Co. WY/BZ 954
Meters pH Zeromatic Beckman NY/BZ 549
Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation KY/BZ 315
Methodology of science: Teaching philosophy of science with a laboratory IL/ZZ 206
Methods engineering: Development of laboratories for production and safety engineering MO/ZZ 482
Methods in neurobiology FL/IN 167
Metirx sound and vibration analyzer NM/EN 541
Metric system: Equipment enhancement of general and organic chemistry courses AL/CH 8
Metrix Inc. Echo Flow Monitor ultrasonic doppler MI/PH 416
Metrix Inc. Echo Trace ultrasonic echo apparatus MI/PH 416
Metrologic laser ML-650 IL/IN 229
Metrologic ML-940 laser MO/PH 477
Metrologic 3mW He-Ne laser ME940 SD/PH 819
Metrologic 60-621 optics teaching and holography kit PA/PH 773
Metrologic 60-635 holography laboratory MO/PH 477
Metrologic 620 HeNe laser PA/PH 773
Mettler analytical balance CT/BZ 137 NY/BZ 563
Mettler analytical balance A78AR VA/EN 895
Mettler analytical balance H31AR NY/BZ 570
Mettler analytical balance H80 DC/PS 147
Mettler analytical balances H 78 AR TX/CH 844
Mettler Balance CT/CH 133
Mettler general purpose balance P163 SD/BZ 818
Mettler H78 AR analytic balances PA/ZZ 766
Mettler P1210 balance NE/BZ 499
Mettler top loader balance P1210 IA/ZZ 283
Mettler top loading balance P1200 NY/BZ 570
Mexico: Data analysis exercises in anthropology MN/SZ 447
MFE X-Y recorder with time base generator model 815M AR/PH 40
MF11-U 16K×16 memory NJ/CS 532
MF11-UB 32K×16 memory NJ/CS 532
Micro Computing Machines DDS-500 dual diskette CA/IN 67
Micro Computing Machines MCP-132 printer plotter CA/IN 67
Micro Computing Machines PMR 400 PIM card reader CA/IN 67
Micro Computing Machines VDU-2480 CRT display CA/IN 67
Micro Computing Machines 816 calculator CA/IN 67
Micro disk system North Star PA/CH 787
Micro Now ESR spectrometer NJ/CH 526
Micro projector Bausch Lomb IN/BZ 247
Micro projector Tri-Simplex Bausch Lomb NY/BZ 571
Micro surveying altimeter M-5 AZ/EZ 27
Microbial genetics: Specialized microbiology subcourse for undergraduates MA/BZ 379
Microbial plant, animal, physiology SD/BZ 813
Microbiological laboratory equipment for four-year college NJ/BZ 519
Microbiological transfer hood Scientific Products AZ/BZ 21
Microbiology aquatic modules NY/BZ 619
Microbiology audio-tutorial approach MI/BZ 420
Microbiology biochemistry equipment audiovisual aids MI/BZ 424
Microbiology college television OH/BZ 700
Microbiology courses improved facilities AZ/BZ 21
Microbiology genetics, cell biology, research SC/BZ 800
Microbiology immunology fluorescent microscope laboratory WI/BZ 952
Microbiology independent research projects CT/BZ 137
Microbiology laboratories non-science majors IL/BZ 230
Microbiology multiple viewing microscope NY/BZ 609
Microbiology subcourse undergraduates MA/BZ 379
Microbiology: Aquisition of equipment for a course in immunology NJ/BZ 522
Microbiology: Centralized tissue culture facility for students in biological sciences OK/BZ 718
Microbiology: Laboratory assistance videotapes for life science CA/BZ 73
Microbiology: Laboratory courses in cell biology with emphasis on immunology VA/BZ 905
Microbiology: Science laboratory project in support of community research needs CA/BZ 66
Microbomb calorimeter oxygen Phillipson NE/BZ 499
Microcoding microprocessor programming language translations NY/EN 584
Microcomputer Alpha Microsystems UT/PH 883
Microcomputer Altair PA/CH 787
Microcomputer Altair Mits Inc. VT/EN 891
Microcomputer applications and affinity chromatography for science undergraduates WI/IN 946
Microcomputer board Digital Equipment Corp. TN/PS 834
Microcomputer card MOS Technology Inc. AZ/EN 31
Microcomputer chip Mos Technology Inc. VA/CS 914
Microcomputer DECLAB Digital Equipment Corp. TN/PS 834
Microcomputer development station Intel CO/EN 125
Microcomputer development station Tektronix CO/EN 125
Microcomputer development system INTEL CA/CS 105
Microcomputer development system Tektronix TX/CS 847
Microcomputer Digital Equipment NY/PH 595
Microcomputer Digital Equipment Corp. MA/PH 377 MS/EN 470 NM/CS 539 TN/PS 834
Microcomputer IMSAT MS/IN 461
Microcomputer instruments interfacing chemistry laboratory PA/CH 787
Microcomputer interface mass spectrometer TX/CH 835
Microcomputer interfacing boards E and L Instruments Inc. VT/EN 891
Microcomputer KIM-1 CA/CS 46
Microcomputer laboratory computer education NV/CS 505
Microcomputer laboratory digital systems CO/EN 125
Microcomputer laboratory for electrical engineering department NJ/EN 521
Microcomputer laboratory for non-engineering students CA/CS 46
Microcomputer laboratory for undergraduate computer scientists and engineers NH/CS 514
Microcomputer microprocessor Cromemco UT/PH 883
Microcomputer microprocessor instruction courseware IN/ZZ 239
Microcomputer minicomputer laboratory hardware software MA/CS 393
Microcomputer MOS Technology Inc. NH/CS 514
Microcomputer Motorola NC/EN 645

Microcomputer PDP 11/03 Digital Equipment Corp. MA/EN 392
NC/EN 645
Microcomputer peripherals Intel NY/EN 584
Microcomputer peripherals Motorola NY/EN 584
Microcomputer Processor Technology WI/IN 946
Microcomputer Products microprocessor equipment PA/EN 757
Microcomputer software course for undergraduates NY/CS 552
Microcomputer system Cromemco NV/CS 504
Microcomputer system design laboratory TX/CS 847
Microcomputer system for undergraduate direct digital process control laboratory MS/EN 470
Microcomputer system Heathkit UT/PH 883
Microcomputer systems laboratory computer hardware IN/EN 266
Microcomputer Technico NY/CH 583
Microcomputers computer organization programming TX/CS 864
Microcomputers engineering physics OH/PH 678
Microcomputers for CAI in introductory undergraduate electrical engineering MI/EN 426
Microcomputers for instruction in computer science hardware and software NV/CS 504
Microcomputers in instruction: Microcomputers for CAI in introductory undergraduate electrical engineering MI/EN 426
Microcomputers in liberal arts science curriculum SD/PH 812
Microcomputers microprocessors undergraduate education UT/PH 883
Microcomputers Technico TX/CS 864
Microcomputers: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Microcomputer: Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Microcomputer: Computer graphics and spectrum analyzer for four year college CA/ZZ 64
Microcomputer: Engineering physics equipment and interfacing with microcomputers OH/PH 678
Microcomputer: Interactive microprocessor simulation of mass spectrometers NY/CH 583
Microcomputer: Microprocessor design laboratory KY/EN 327
Microcomputer: Pedagogical impact of microprocessor based computing systems IL/CS 225
Microcomputer: Real time computer aided laboratories in psychology and biology TX/PS 860
Microcomputer: Sophomore laboratory on programmed logic AZ/EN 31
Microdissecting kits Carolina Biological CO/BZ 114
Microdrive hydraulic Stoelting OH/PS 688
Microelectrode preamplifier Grass IL/BZ 215
Microelectronics: Microprocessor design laboratory KY/EN 327
Microemulator Future Data MO/EN 484
Microflex camera AFM Nikon ND/EZ 659
Microfractionator Gilson NY/IN 580 VT/CH 884
Microhematocrit centrifuge Clay Adam NJ/BZ 530
Microlens Nikon ND/BZ 658
Micromanipulator Brinkman MD/BZ 365
Micromanipulators Labtron miniature MN/IN 434
Micromanipulators probeholders Ealing NY/EN 575
Micromeritics Instrument Corp. fixed wavelength UV detector 790 TX/IN 839
Microorganisms botanical experimental approach UT/BZ 882
Micropan zoom microprojector Nikon MO/BZ 481
Microphone measuring Bruel Kjaer AR/PH 40
Microphone power supply Bruel Kjaer AR/PH 40
Microphone preamplifier Bruel Kjaer AR/PH 40
Microphone selector Bruel and Kjaer ME/EN 351
Microprinter Centronics IN/EN 252
Microprocessor IN/EN 264
Microprocessor American Microsystems Inc. UT/PH 883
Microprocessor analog interface Cromemco NY/CH 583
Microprocessor analyzer Systron Bonner NH/CS 514
Microprocessor applications: Four-machine model electric power system for power engineering laboratory MO/EN 483
Microprocessor based interdisciplinary laboratory CO/EN 111
Microprocessor based on Intel 8080 chip MA/PS 383
Microprocessor computers simulated plants engineering design IN/EN 264
Microprocessor computing systems pedagogical impact IL/CS 225
Microprocessor control: Instrumental analysis incorporating mass spectroscopy and modular electronic instrumentation PA/CH 749
Microprocessor course Heath AR/PH 36
Microprocessor design laboratory KY/EN 327
Microprocessor development kit Intel WI/EN 937
Microprocessor Diablo computer terminal IA/MA 274
Microprocessor E and L PA/CH 749
Microprocessor equipment for a two-year engineering technology program NJ/EN 517
Microprocessor equipment for laboratory use in electrical engineering PA/EN 757
Microprocessor equipment Microcomputer Products PA/EN 757
Microprocessor evaluation kit Intel KY/EN 327
Microprocessor evaluation kit Motorola KY/EN 327
Microprocessor Heath Co. MO/EN 486
Microprocessor instructor Signetics Corp. NC/PH 637
Microprocessor interfacing technology teaching VT/EN 891
Microprocessor laboratory IN/EN 252
Microprocessor laboratory course IN/EN 253
Microprocessor laboratory electrical computer engineering TX/EN 876
Microprocessor laboratory for electrical engineering and computer science study CA/CS 105
Microprocessor laboratory instrumentation mechanical chemical engineers FL/EN 168
Microprocessor laboratory paralleling a computer lecture course VA/CS 913
Microprocessor microcoding programming language translations NY/EN 584
Microprocessor microcomputer Cromemco UT/PH 883
Microprocessor microcomputer instruction courseware IN/ZZ 239
Microprocessor polymorphic computer system MI/PS 414
Microprocessor simulation mass spectrometers NY/CH 583
Microprocessor system design for undergraduate electrical engineers MO/EN 484
Microprocessor system E and L Laboratories MMD-1/A FL/EN 168
Microprocessor systems Digital Group Co. KS/EN 303
Microprocessor Tektronix CA/EN 97
Microprocessor trainers KIM IA/PH 284
Microprocessor training: Introduction to computer maintenance for electronic technicians AR/CS 35
Microprocessors and microcomputers in undergraduate education UT/PH 883
Microprocessors automatic control systems KS/EN 303 KS/EN 304
Microprocessors course development VA/CS 914
Microprocessors EPA 683 CO/EN 111
Microprocessors in modeling of electronic industrial controls and instrumentation OR/EN 732
Microprocessors 6800 AL/EN 4
Microprocessors: Texts and labs for minicourses in electronics for scientists IA/PH 284
Microprocessors: Use of microprocessors in automatic control systems KS/EN 303 KS/EN 304
Microprocessors, constructed in house power supply AL/EN 4
Microprocessor: Computer based data acquisition in upper division physics laboratories MN/PH 455
Microprocessor: Computer hardware and microcomputer systems laboratory IN/EN 266
Microprocessor: Digital systems and microcomputer laboratory CO/EN 125
Microprocessor: Engineering physics equipment and interfacing with microcomputers OH/PH 678
Microprocessor: Microcomputer applications and affinity chromatography for science undergraduates WI/IN 946
Microprocessor systems Digital Group Co. KS/EN 304
Microprogrammable computer Hewlett Packard CO/CS 112
Microprojector Micropan zoom Nikon MO/BZ 481
Microprojector Nikon microscopically oriented courses MO/BZ 481
Microscope LA/BZ 341
Microscope American Optical MA/BZ 379
Microscope BALPLAN brightfield Bausch Lomb NY/BZ 609
Microscope Balplan phase contrast Bausch Lomb VA/BZ 905
Microscope Bausch and Lomb CA/SZ 104
Microscope binocular American Optical FL/BZ 151
Microscope binocular Bosch Lomb RI/BZ 794
Microscope binocular Nikon NY/BZ 563
Microscope compound Bristol MI/BZ 419
Microscope dissecting Bausch and Lomb DC/PS 147
Microscope fluorescence Fluorestar American Optical NJ/BZ 522
Microscope fluorescent American Optical NJ/BZ 519
Microscope fluorescent laboratory microbiology immunology WI/BZ 952
Microscope Fluorostar fluorescence American Optical MA/BZ 399
Microscope inverted phase contrast Nikon OK/BZ 718
Microscope inverted stage Nikon NY/BZ 563
Microscope ir Research Device Inc. CT/ZZ 139
Microscope light section Carl Zeiss PA/EN 761
Microscope metallographic Leitz SC/EN 807
Microscope microstar American Optical OH/BZ 690
Microscope multiple viewing microbiology NY/BZ 609
Microscope Nikon inverted phase contrast AZ/BZ 21
Microscope phase contrast American Optical MI/PH 416
Microscope phase contrast Amplival MO/ZZ 482
Microscope phase contrast Bausch Lomb NC/BZ 639
Microscope polarizing Hacker Instruments OK/EZ 724
Microscope polarizing Leitz Dialux PA/EN 776
Microscope scanning electron Advanced Metals Research MI/BZ 404
Microscope scanning electron ISI MT/EN 489 OH/BZ 699
Microscope scanning electron multi-discipline laboratory MT/EN 489
Microscope slide cabinets Carolina Biological CO/BZ 114
Microscope slides Blue Spruce Biological CO/BZ 114
Microscope slides teaching kodachromes OH/BZ 690
Microscope stereo Leitz SC/EN 807
Microscope stereo zoom Bausch Lomb NY/EN 575
Microscope stereoscopic Hacker Instruments OK/EZ 724
Microscope teaching Wild MA/ZZ 391
Microscope television viewer Nikon NJ/ZZ 528
Microscope transmitted fluorescent Zeiss WI/BZ 952

Microscope video wood anatomy MA/ZZ 391
Microscope Zeiss TV monitor TX/EZ 845
Microscopes American Optical SC/BZ 796 VA/EN 895
Microscopes American Optical (10,43,-100x) AK/BZ 20
Microscopes Balplan conference Bausch Lomb TX/EZ 845
Microscopes binocular Wolfe SC/BZ 800
Microscopes phase contrast Olympus TX/BZ 856
Microscopes phase contrast Zeiss UT/BZ 882
Microscopes stereoscope American Optical TX/BZ 837
Microscopes Wolfe MI/BZ 420
Microscopes Zeiss CT/BZ 144
Microscopy electron technician training NY/IN 589
Microscopy fluorescent M. Erb CA/BZ 75
Microscopy phase developmental biology CT/BZ 144
Microscopy scanning electron biologists MI/BZ 404
Microscopy scanning electron undergraduate training OH/BZ 699
Microscopy: Development of heat treatment and metallography laboratory SC/EN 807
Microseminars enrichment biology VA/BZ 904
Microstar microscope American Optical OH/BZ 690
Microsystem Future Data MO/EN 484
Microtome automatic clinical Fisher NC/IN 638
Microtome sliding American Optical DC/PS 147
Microtome Sorvall DuPont VA/BZ 905
Microtomes freezing American Optical PA/PS 755
Microtower trickling filter B. F. Goodrich PA/EN 776
Microvoltmeter Dew Point SD/BZ 813
Microwave equipment for undergraduate physics laboratories FL/PH 170
Microwave laboratory equipment kit, Hewlett Packard model 1026A FL/PH 170
Microwave measurements swept frequency CA/EN 78
Micro-Styragel columns Waters Associates MN/CH 450
Middle grade: Improvement of teaching in science, mathematics, and social sciences IL/IN 205
Migration: Data analysis exercises in anthropology MN/SZ 447
Mill Pica Blender Pitchford MA/EZ 396
Mill roller W-W KS/EN 300
Mill Wiley NE/BZ 499
Millar Instruments catheter tip blood pressure transducer PC-550 IL/EN 234
Millikan oil drop apparatus Cenco AL/CH 8
Millipore stream analysis kit CA/EZ 52
Milner Fenwick filmloop program on human genetics LA/BZ 337
Milton Roy minipump NS1-33R TX/IN 839
Mineral exploration: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Mineral exploration: Remote sensing for forestry students IL/EZ 220
Mineral identification: Spectroscopic laboratory in introductory mineralogy AZ/EZ 22
Mineralogy introductory spectroscopic laboratory AZ/EZ 22
Mineralogy optical color television programs NY/EZ 551
Mineralogy: Geology laboratory improvement OK/EZ 724
Mineralogy: X-ray diffraction in geology MA/EZ 396
Mineralogy: X-ray diffraction unit for geology, physics, and chemistry WI/IN 951
Mineral: Scientific exploration equipment for undergraduate geophysics instruction HI/EZ 189
Mini laboratory experiences: Improvement of reading skills using science course materials AZ/CH 26
Miniature impulse computer Grozier Technical Systems ME/EN 351
Miniaturized equipment power systems laboratory NC/EN 644
Miniaturized power laboratory NC/EN 644
Miniaturized table top experimental setups, Tecquipment IL/EN 203
Minicomputer and microcomputer laboratory for hardware and software instruction MA/CS 393
Minicomputer based material testing data acquisition system GA/EN 180
Minicomputer based simulation programs for digital circuit design OK/CS 726
Minicomputer Data General CO/EN 121
Minicomputer DECLAB Digital Equipment Corp. NM/CS 539
Minicomputer DECLAB 11/03 CT/CH 141
Minicomputer Digital Equipment Corp. CA/EN 84 OK/IN 722 WV/CS 925
Minicomputer equipment for computer science instruction and laboratory automation NM/CS 539
Minicomputer graphics plotter Tektronix IL/PH 219
Minicomputer Harris OR/PH 742
Minicomputer IMLAC PDS4 IA/SZ 290
Minicomputer in education: Real time computer aided laboratories in psychology and biology TX/IN 862
Minicomputer Interdata GA/EN 180 MI/CS 417 WA/SZ 923
Minicomputer laboratory applied acoustics measurements IL/PH 219
Minicomputer laboratory DEC PA/CH 783
Minicomputer laboratory for computer science majors NY/CS 554
Minicomputer PDP-11/34 DEC NH/EN 513
Minicomputer PDP-8/A Digital Equipment Corp. MI/PS 402
Minicomputer portable KS/MA 296
Minicomputer system Digital Equipment OH/CH 683
Minicomputer system Digital Equipment Corp. PDP-11/34 NY/MA 622
Minicomputer Tandy AZ/ZZ 23
Minicomputers personal undergraduate instruction computer design AL/EN 4
Minicomputers: Computer audio visual assisted instruction in chemical instrumentation CA/CH 58
Minicomputers: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Minicomputers: Time-shared microprocessor laboratory for electrical and computer engineering majors TX/EN 876
Minicomputer: Computer assisted control in laboratory practice CA/EN 44
Minicourse textbooks: Texts and labs for minicourses in electronics for scientists IA/PH 284
Minicourses biology self paced VA/BZ 896
Mining engineering curriculum mining safety operations AZ/EN 29
Mining engineering: Implementation of interactive computer graphics in undergraduate engineering education WI/EN 947
Mining safety unit operations laboratory for mining engineering curriculum AZ/EN 29
Mining: Scientific exploration equipment for undergraduate geophysics instruction HI/EZ 189
Minipump Roy Milton TX/IN 839
Miniscalar Eberline TN/PH 824
Minishot x-ray Diano Co. TN/PH 824
Mini-micro designers E and L Instrument NJ/EN 517
Mini-micro designers E and L Instruments NJ/EN 521
Mini-micro integrated learning center NE/CS 502
Mini-research projects for advanced physics laboratory NJ/PH 518
Mini-wiper Panasonic AL/PS 17
Minority carrier lifetime: Semiconductor material and device project laboratory stressing data validation NY/EN 628
Minority students chemistry equipment MD/CH 356
Minority students: An audiovisual improvement in chemical laboratory instruction NJ/CH 516
Minority students: Aquisition of equipment for a course in immunology NJ/BZ 522
Minority students: Audio tutorial, self instructional systems soil plant science teaching AL/EZ 1
Minority students: Basic laboratory equipment for teaching physiological psychology TX/PS 843
Minority students: Basic principles applied radiation physics NY/PH 599
Minority students: Computer aided instruction in mathematics and physics GA/IN 176
Minority students: Computer-based testing in a modular remedial physics course NY/PH 550
Minority students: Construction of inexpensive environmental chamber NY/BZ 571
Minority students: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Minority students: Desk top kits for introductory chemistry: a Piagetian approach FL/CH 173
Minority students: Development of interdisciplinary social science research skills AL/IN 13
Minority students: Educational system utilizing water management modules NY/EN 623
Minority students: Energy awareness in engineering physics PA/PH 771
Minority students: Environmental engineering technology laboratory for four-year city college CO/EN 118
Minority students: Guided design in interdisciplinary introductory college science program NJ/IN 529
Minority students: Improvement of an individualized general chemistry course TX/CH 844
Minority students: Improvement of reading skills using science course materials AZ/CH 26
Minority students: Individualized mathematics and science instruction TX/IN 841
Minority students: Individually designed educational activities for teaching introductory psychology NY/PS 553
Minority students: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Minority students: Instructional scientific equipment in chemistry for minority students MD/CH 356
Minority students: Instrumentation implementation for teaching contemporary science techniques MS/IN 461
Minority students: Introductory physics laboratory instruction AL/PH 2
Minority students: Laboratory assistance videotapes for life science CA/BZ 73
Minority students: Laboratory assisted biology and chemistry for two-year college NC/IN 638
Minority students: Natural science designed for the disadvantaged learner CA/IN 85
Minority students: Physics lab for biologists LA/PH 332
Minority students: Piaget based general chemistry laboratory for science majors LA/CH 346
Minority students: Piagetian based introductory chemistry laboratory for science majors MS/CH 462
Minority students: Practical electronic technology laboratory for undergraduate college students MI/IN 423
Minority students: Project-oriented organic laboratories NY/CH 615

Minority students: Restructuring undergraduate laboratory teaching in biology SC/BZ 802
Minority students: Self paced minicourses in biology for the general student VA/BZ 896
Minority students: Small computer for students and faculty in several departments CA/IN 67
Minority students: Undergraduate training for chemistry majors, minors and medical technologists AL/CH 10
Minority students: Upgrading lab facilities for neuroscience instruction OH/PS 688
Minority students: Video techniques for qualitative analysis for undergraduate social sciences IL/SZ 200
Minority students: Videotapes and worksheets for alternative remedial instruction in chemistry CA/CH 72
Mirror front surfaced Byron Ellis Assoc. WI/PH 939
Mirror stereoscope Alan Gordon Enterprises OK/EZ 724
Mirrors resonator Oriel WI/PH 931
Misconceptions: Cataloguing student conceptual models in introductory university physics MA/PH 390
Mits Inc. CRT terminal ADM 3 VT/EN 891
Mits Inc. microcomputer Altair 8800 B VT/EN 891
MITS RAM 32 kilobytes PA/CH 787
Mixer density gradient Buchler TX/BZ 856
Mixer Lightnin' Mixing Equipment Inc. OK/EN 729
Mixer vertical Burrows KS/EN 300
Mixing Equipment Inc. Lightnin' Mixer NC4 OK/EN 729
Mixing: Food engineering technology laboratory for four year program KS/EN 300
MI² Design 76 acoustic coupler NJ/IN 534
MKS Tru-Torr vacuum gauge CO/CH 116
MKS units: Energy awareness in engineering physics PA/PH 771
Mm slide rear screen Bell and MS/BZ 471
Modecular biology: Radioisotope usage for interdisciplinary sciences MD/IN 360
Model anatomical removable plastic organs AK/BZ 20
Model human torso Turtox IN/BZ 247
Model power system computer control NC/EN 645
Model testing studio for architectural structures PA/EN 775
Modeling and simulations: Computer managed laboratories for four cognitive psychology courses FL/PS 165
Modeling and simulation: Computer assisted course in biomathematics MI/MA 418
Modeling computer wilderness recreation travel ID/ZZ 195
Modeling electronic industrial controls instrumentation OR/EN 732
Modeling problems from local industry OH/MA 682
Modeling: Beginning scientific computer programming techniques for undergraduate science students MI/IN 408
Modeling: Computer augmented general physics for undergraduates OR/PH 742
Modeling: Mathematics problems from regional industries for undergraduate majors OK/MA 713
Modeling: Survey of applied mathematics for life scientists TX/MA 872
Modelling problems mathematical NC/MA 641
Models anatomical Carolina Biological TX/BZ 837
Models conceptual cataloguing physics MA/PH 390
Models elementary mathemathetical computer-assisted MT/MA 492
Models LAP dissolved organic chemistry GA/CH 185
Models Testing Tables, custom built PA/EN 775
Models Wards MI/BZ 424
Models, anatomical Carolina Biological AZ/BZ 30
Models, anatomical Wards Science Teaching Aids AZ/BZ 30
Model, anatomical Nystrom life size AL/BZ 11
Modem Vadic MA/CH 389
Modem Vadic Corp. NY/BZ 562
Modems acoustic coupler Comdata TN/SZ 828
Modems for 7/16 computer LA/PH 343
Modern electronic instrumentation for physical measurements TX/PH 849
Modern instrumentation for laboratory exercises in biochemistry MN/CH 456
Modern laboratory study of chemical kinetics NY/CH 610
Modern measurement techniques for undergraduate sensory psychology laboratory MA/PS 383
Modern methodology: Improvement of undergraduate plant physiology laboratory course CT/BZ 138
Modern optics and laser physics laboratory for four-year college WI/PH 931
Modern optics Corporation ferromagnetic table CO/ZZ 120
Modern optics: Modern physics experiments for undergraduate physics majors IL/PH 207
Modern physics experiments for two year college CA/PH 79
Modern physics experiments for undergraduate physics majors IL/PH 207
Modern physics experiments: Up-grading of undergraduate junior and senior physics laboratory KS/PH 298
Modernization of experiments for physical chemistry NE/CH 501
Modernization of organic chemistry laboratory experiments OH/CH 702
Modernization of the organic chemistry laboratory using instrumental techniques TX/CH 840
Modernized plant physiology laboratory for four-year college PA/BZ 780
Modification analysis behavior disturbed children NY/PS 600
Modified Keller plan: Feasibility study of self-paced algebra and trigonometry for college NE/MA 503
Modular and multimedia approach to introductory statistics OH/MA 694
Modular approach to introductory course in computer science MI/CS 409
Modular approach to methodological issues in psychological research NY/PS 631
Modular electronics MPI NE/CH 496
Modular human test system BRS/LVE LA/PS 339
Modular instruction in chemistry for underprepared learners IL/CH 227
Modular instrument system Daytronic NH/EN 513
Modular instrumentation biomedical Pasco NY/PH 598
Modular materials that assist biology students in investigation IL/BZ 235
Modular Medical Electronics measurement system from Pasco Scientific GA/PH 183
Modular test cages Coulbourn Instruments PA/PS 755
Modularizing an elementary statistics course for behavioral science students IA/MA 270
Modulation spectroscopy: Solid state physics laboratory for seniors CA/PH 55
Modulator acousto-optic Datalight Corp. RI/EN 791
Module audio-tutorial teaching algae ND/BZ 660
Module dynamic RAM Motorola Semiconductor Products MN/CS 451
Module electroanalytic McKee Pederson MN/CH 441
Module EPROM programmer personality Future Data MO/EN 484
Module integrated science laboratory TX/IN 839
Module interface communications EIA Texas Instruments TX/IN 862
Module MOS memory Intel TX/EN 876
Module power Tektronix OK/EN 721
Module skin resistance Coulbourn Instruments OH/PS 670
Module system mechanical Harvard NJ/BZ 530
Module thermoelectric cooling Herbach Rademan NM/BZ 540
Modules algebra computer assisted instruction TN/MA 829
Modules anatomy physiology courses IN/BZ 247
Modules audiovisual independent study chemistry OH/CH 661
Modules auto-tutorial audiovisual complex instrument operation MA/CH 384
Modules biofeedback Narco FL/BZ 151
Modules computer biology labs NY/BZ 558
Modules computer calculus linear algebra SC/MA 799
Modules in aquatic microbiology for microbiology, non-microbiology courses NY/BZ 619
Modules in history of mathematics NY/MA 565
Modules in probability with computing NH/MA 509
Modules logic audiometric Coulbourn Instruments AR/PS 38
Modules medical electronics Pasco IL/PH 201
Modules NIM SCA Ortec IN/PH 241
Modules physics Pasco IL/PH 201
Modules PLATO biomedical instrumentation IL/EN 233
Modules PLATO political science research MN/SZ 444
Modules self-study undergraduate chemistry OK/CH 725
Modules video tape physics MO/PH 478
Modules: Non-science majors courses in energy, environment, chemical technologies NY/CH 548
Modulized course in principles of entomology FL/BZ 166
Moisture tester grain Motomco portable IN/ZZ 251
Molding machine injection Buy-15 MA/EN 394
Molecular biochemistry experiments ND/CH 654
Molecular biology and protein analysis: Techniques in experimental cell biology for undergraduate biology majors AL/BZ 3
Molecular biology centrifuge OK/BZ 711
Molecular biology instrumental techniques IN/BZ 243
Molecular biology laboratory ultracentrifuge PA/BZ 750
Molecular biology: Biochemical methods laboratory CA/IN 95
Molecular biology: Undergraduate involvement with biological instrumentation OR/BZ 731
Molecular structure: NMR spectrometer for organic chemistry NC/CH 635
Molecular weight: Mechanical properties of plastics laboratory CA/EN 53
Molecular, genetics laboratory improvement MA/BZ 386
Monitor audio Grass Instruments OH/PS 688
Monitor black white Sony OH/BZ 700
Monitor builder package PAM/D Texas Instruments TX/IN 862
Monitor color Panasonic OH/BZ 700
Monitor color video Sony MI/CH 430
Monitor eye movement Applied Science Lab. PA/PS 765
Monitor head phones Pioneer WI/PH 944
Monitor lab Nucleus NJ/IN 534
Monitor Labs nitrogen oxides monitor IN/EN 267
Monitor Labs sulfur dioxide monitor IN/EN 267
Monitor nitrogen oxides Monitor Labs IN/EN 267
Monitor patient portable Tektronix Inc. IL/EN 234
Monitor receiver color Sony IL/SZ 200
Monitor receiver Unimedia color Sony ND/BZ 652
Monitor receiver video RCA NJ/EN 531
Monitor Sony color AK/BZ 20
Monitor sulfur dioxide Monitor Labs IN/EN 267

Monitor Tektronix CT/PS 134
Monitor TV RCA TN/CH 833
Monitor TV Zeiss microscope TX/EZ 845
Monitor ultrasonic doppler Metrix Inc. Echo Flow MI/PH 416
Monitor video Digi-Log WI/ZZ 943
Monitor video Panasonic NC/PS 636 TN/SZ 828
Monitor video Panasonic cassette tapes KS/PS 307
Monitor video Sharp color NY/EZ 551
Monitor wave form power LA/BZ 341
Monitoring carbon monoxide Beckman IN/EN 267
Monitoring sampling environmental air pollutants IN/EN 267
Monitoring video recording equipment human research AL/PS 17
Monitors black white audio Panasonic MA/PS 388
Monitors color TV Magnavox MA/ZZ 391
Monitors TV LA/BZ 341
Monitor, uv flow cell, recorder Isco AL/IN 16
Monochromator Ebert Jarrel Ash KS/PH 298
Monochromator GCA and McPherson CO/CH 116
Monochromator grating Schoeffel NM/EN 541
Monochromator McKee Pederson NJ/PH 518
Monochromator scanning czerney turner McKee Pedersen PA/CH 749
Monochromator step motor scan drive Jarrel Ash KS/PH 298
Monochrome special effects generator Panasonic AL/PS 17
Monochrome video camera Panasonic AL/PS 17
Monoxide carbon monitoring Beckman IN/EN 267
Monroe programmable calculator 1860 NY/MA 621
Monroe statistical calculator 1930 NY/MA 621
Monroe statistical calculators 1930 NY/MA 579
Montana geology field course IN/EZ 246
Monte Carlo methods: Mathematics and computing for undergraduate marine scientists NY/MA 572
MOS memory module Intel TX/EN 876
MOS Technology Inc. microcomputer card AZ/EN 31
MOS Technology Inc. microcomputer KIM-1 NH/CS 514
Mos Technology Inc. microcomputer KIM-1 with MCS6502 chip VA/CS 914
MOSFET testing stations: Integrated circuit laboratory improvement CA/EN 88
Mossbauer system Ealing OH/PH 684
Motion analyzer B and K OH/EN 703
Motivated minimally students science course MA/IN 397
Motomco portable grain moisture tester IN/ZZ 251
Motor behavior human perceptual IA/PS 289
Motor Johnson outboard FL/IN 153
Motor learning: Laboratory experiences in the exercise sciences AZ/BZ 32
Motor stepping laboratory ME/EN 353
Motorola M 6800 microcomputer D2 kit MI/EZ 432
Motorola microcomputer MEK 6800D2 NC/EN 645
Motorola M6800 microprocessor evaluation kit KY/EN 327
Motorola Semiconductor Products dynamic RAM module 16KX8 MN/CS 451
Motorola Semiconductor Products exorciser M6800 MN/CS 451
Motorola Semiconductor Products floppy disk drive M68FD3602 MN/CS 451
Motorola Semiconductor Products relocatable macro assembler M68ASMR021D MN/CS 451
Motorola 6800 D2 evaluation kit IL/CS 225
Motorola 6800 microcomputer and peripherals NY/EN 584
Motors electric ME/EN 353
Motors Magnestir magnetic stirring Lab-Line Inc. TX/IN 848
Moto-Flex Tools Cole Parmer PA/PS 755
Mounting frame NJ/CS 532
Movie camera projector Sankyo sound IN/ZZ 251
Movie projector Filmsound Bell Howell SC/BZ 796
MPI modular electronics NE/CH 496
MTS materials testing instrument 810.12 with soil testing modifications CO/EN 126
Mud organisms marine biology: CA/BZ 68
Muffler furnace Blue M SC/EN 807
Multichannel analyzer Canberra GA/EN 179
Multichannel analyzer Northern Scientific Co. VT/PH 887
Multichannel analyzer Tracor Northern MI/PH 416
Multidisciplinary laboratory course for science majors CA/IN 103
Multidisciplinary science course non-science majors IL/IN 229
Multidisciplinary science study project center for two-year college OR/IN 748
Multidisciplinary university introduction to children as a research topic CA/SZ 91
Multidisciplinary: Centralized tissue culture facility for students in biological sciences OK/BZ 718
Multidisciplinary: Computer control of undergraduate science laboratory experiments MD/IN 361
Multidisciplinary: General biology and independent studies MI/BZ 415
Multilevel instruction low enrollment courses IN/CH 261
Multimedia kit-2HE200T anatomical model, Nystrom life size AL/BZ 11
Multimedia modular introductory statistics OH/MA 694
Multimeter digital Data Precision Inc. IL/PH 210
Multimeter digital Dynascan Corp. KS/EN 303 KS/EN 304
Multimeter digital Fluke CA/PH 77
Multimeter digital Hewlett Packard NY/EN 603 NY/EN 628
Multimeter digital Keithley CT/CH 141 NY/EN 628
Multimeter digital Tektronix FL/EN 168 OK/EN 721 TX/PH 842
Multimeter Keithley Instruments GA/PH 175
Multimeter Tektronix VA/EN 909
Multimeters 160B microvolt Keithley NY/EN 575
Multiple choice reaction time Lafayette Instrument IL/PS 223
Multiple instructional innovations in introductory economics IL/SZ 211
Multiple viewing adapter with pointer 31-18-85 NY/BZ 609
Multiple viewing microscope for teaching advanced methods in microbiology NY/BZ 609
Multiplexer pressure Scannivalve TX/EN 873
Multipoint recorder system TI LPM KS/EN 300
Multitasking: Educational uses of computer graphics CA/CS 102
Multi-AMP CS-7A phase shifter TN/EN 822
Multi-AMP SR-51A relay test set TN/EN 822
Mult-Tek OPL interface unit R/S 232 800 WA/BZ 920
Murray boat trailer M23DT FL/IN 153
Muscle biophysics: Animal physiology for sophomore biology students MO/BZ 472
Muscle contraction: Simultaneous recording of three physiological parameters in vertebrates NY/BZ 576
Muscle physiology: Physiology laboratory enrichment for non-science majors NJ/BZ 530
Muscle: Comparative animal physiology laboratory OH/BZ 696
Music physics of CA/PH 81
Music synthesizer: Physics of music for music oriented students CA/PH 81
Music: Sensory basis of art and human communication FL/IN 172
Mycology: Experimental approach to study of botanical microorganisms UT/BZ 882
Myth and ritual: Self paced video and computer assisted instruction in ethnography CA/SZ 93
Mythical culture: Nogero subsistence and ecology OR/IN 738
M. Erb fluorescent microscopy assembly CA/BZ 75
M-series development systems Control Logic IN/EN 266
Nakamichi casette tape recorder CA/PH 81
Nalgene 30 gallon polyethylene tanks with lids and stands OK/EN 729
NAPM Medical Plastics skull model AL/BZ 11
Narco Bio Systems desk model physiograph BMP-4B LA/PS 339
Narcb biofeedback modules NB-101, 122, 132, 192, 222, and 401 FL/BZ 151
Narco Biosystems Inc. physiograph DMP-4B ND/BZ 652
Narco Biosystems Mark III 3-channel physiograph ME/BZ 348
Narco Biosystems MK III 3-channel physiograph MA/BZ 368
Narco Biosystems Narco Trace 2-channel digital oscilloscope NY/BZ 632
Narco Biosystems physiograph accessories TX/BZ 837
Narco Biosystems physiograph CPM AR/IN 34 NE/BZ 495
Narco Biosystems physiograph MK-III OH/BZ 696
Narco Biosystems physiograph recording equipment TX/BZ 855
Narco BioSystems physiotape cassette data recorder PA/BZ 788
Narco Biosystems physiotape cassette data recorder 411 NE/BZ 495
Narco Biosystems physiotape prerecorded experiments NE/BZ 495
Narco Biosystems pressure transducer P-1000A NE/BZ 495
Narco BioSystems projector physiograph PA/BZ 788
Narco Biosystems projector physiograph CPM NY/BZ 549
Narco BioSystems 2-channel physiograph MK-III PA/PS 765
Narco Biosystems 3-channel physiograph with time-event channel MKIII NY/BZ 576
Narco Bio-systems physiographs CPM-4-7070 CA/BZ 75
Narco channel amplifier type 7000 MN/IN 434
Narco channel amplifiers and input couplers 7070 MO/BZ 472
Narco dc-ac coupler type 7170 MN/IN 434
Narco digital storage oscilloscope MO/BZ 472
Narco physiograph DMP-4B with accessories CT/BZ 140
Narco physiograph unit 750-2241 and recording channels and accesories FL/BZ 151
Narco polygraphs FL/IN 167
Narco stimulator SI-10 MN/IN 434
Narco Trace physiograph MKIII, CDR-411 physiotape MN/BZ 446
Narco trace 2-channel non-fade memory scope 709-1800 MN/IN 434
Narda dual directional coupler 3020A CA/EN 78
Nasco life-form human lower extremity stage one LF 822L LA/BZ 333
Nasco life-form human shoulder stage one LF 765L LA/BZ 333
Nassau weather station AR/IN 37
National Museums of Kenya fiberglass casts of Australopithecines TX/SZ 850
National Museums of Kenya fiberglass casts of early man TX/SZ 850
National Museums of Kenya fiberglass casts of pongids TX/SZ 850
National two-door CO_2 incubator NJ/BZ 519
Natural history of animals: Optional activities for undergraduate animal biology students OK/BZ 719
Natural language: Video monitoring and recording equipment for human research sequence AL/PS 17
Natural science designed for the disadvantaged learner CA/IN 85
Natural science undergraduate research seminar KS/ZZ 299
Natural sciences multidisciplinary remote sensing IL/EZ 221
Natural science: Self-paced materials for a competency-based fundamental science curriculum MI/IN 405

Naval architecture: Options in junior and senior year in professional courses NY/EN 633
NCR 265 portable APL/ASCII computer terminal AL/MA 6
Net gill CA/BZ 66
Net ichthyo-macrozooplankton Wildco SC/IN 808
Nets aquatic collecting Ward's Natural Science VA/IN 901
Neuro Dyne defibrillator tester 429 CA/EN 57
Neuro Dyne electrical safety analyzer 431F CA/EN 57
Neuroanatomy: Methods in neurobiology FL/IN 167
Neuroanatomy: Upgrading lab facilities for neuroscience instruction OH/PS 688
Neurobiology introductory laboratory MN/IN 434
Neurobiology methods FL/IN 167
Neurochemistry: Upgrading lab facilities for neuroscience instruction OH/PS 688
Neurology: Introductory laboratory course in neurobiology MN/IN 434
Neurology: Methods in neurobiology FL/IN 167
Neurophysiological and behavioral experiments in undergraduate organismic biology laboratory MD/BZ 365
Neurophysiology laboratory equipment CT/BZ 140
Neurophysiology: Human anatomy and physiology laboratory for nursing students MS/BZ 471
Neurophysiology: Upgrading lab facilities for neuroscience instruction OH/PS 688
Neuropsychology: Sensory basis of art and human communication FL/IN 172
Neuroscience lab facilities OH/PS 688
Neuroscience: Laboratory course in physiological psychology PA/PS 755
Neutron detector Eberline OH/PH 684
Neutron detector Victoreen TN/PH 824
Neutron source and detection system NY/PH 592
New Brunswick gyrotary waterbath shaker G 76 PA/BZ 789
New Brunswick Psycrotherm incubator shaker G27 UT/BZ 882
New Brunswick Scientific Co. PaycroTherm incubator shaker G26 DE/IN 146
New Brunswick Scientific electronic colony counters MA/BZ 386
New Brunswick scientific water bath shaker CT/BZ 137
New experiments in equilibrium and analysis MN/CH 437
New Optics Laboratory Course for Non-Physicists MA/PH 374
New soil geography course AZ/EZ 27
New transportation component for an interactive technology society course NJ/EN 524
Newton cooling: Mechanical engineering undergraduate laboratory NM/EN 541
Newton's Second Law experiment, F=ma during rapid impacts MI/PH 429
Niche overlap: Experimental ecology laboratory for life sciences undergraduates NE/BZ 499
Nicolet Co. signal averager 535 NV/CH 506
Nikon AFM Microflex camera with 35mm for photomicroscopy ND/EZ 659
Nikon binocular student microscope S NY/BZ 563
Nikon F2A Photomic camera and lenses MA/CH 384
Nikon F2S and Nikonis II cameras for underwater photography CA/BZ 82
Nikon inverted phase contrast microscope MS AZ/BZ 21 OK/BZ 718
Nikon inverted stage microscope MS NY/BZ 563
Nikon microlens ND/BZ 658
Nikon Micropan zoom microprojector MO/BZ 481
Nikon Micropan zoom microprojector for microscopically oriented courses MO/BZ 481
Nikon stereomicroscope SMZ2 MI/BZ 419
Nikon 76561 inverted microscope with television viewer NJ/ZZ 528
NIM bin voltage power supply Ortec Inc. VT/PH 887
NIM coincidence system Canberra GA/EN 179
NIM modules SCA Ortec IN/PH 241
Nimbus Instruments ES-6D engineering seismograph MI/EZ 432
Nitrogen oxides monitor Monitor Labs IN/EN 267
NMR and mass spectroscopy in organic undergraduate laboratory VT/CH 889
NMR chemistry laboratories KY/CH 320
NMR equipment: Updating the organic chemistry laboratory AL/CH 18
NMR lock decoupler attachment AL/CH 18
NMR organic chemistry course improvement WA/CH 924
NMR spectra: Nuclear magnetic resonance spectrometer procurement for course improvement GA/CH 174
NMR spectrometer for organic chemistry NC/CH 635
NMR spectrometer Hitachi Perkin Elmer IN/CH 248
NMR spectrometer Varian CA/CH 50 GA/CH 174 KY/CH 320 NC/CH 635 NY/CH 612 VT/CH 889 WA/CH 924
NMR spectrometer, proton Varian NY/CH 615
NMR spectrophotometer for undergraduate chemistry training CT/CH 142
NMR spectrophotometry: Basic chemical instrumentation with media assistance NY/CH 617
NMR spectroscopy organic laboratory NY/CH 612
NMR spectroscopy: Proton magnetic resonance experiments in undergraduate chemistry curriculum SC/CH 801
NMR: Nuclear magnetic resonance instruction for organic-analytical chemistry laboratories LA/CH 334
NMR: Nuclear magnetic resonance spectroscopy for monitoring individual chemistry projects WI/CH 932
NMR: Nuclear magnetic resonance spectroscopy in the undergraduate chemistry curriculum OH/CH 705
Nogero subsistence and ecology OR/IN 738
Noise classifier environmental Bruel and Kjaer ME/EN 351
Noise control acoustics NY/EN 625
Noise control laboratory communication, electroacoustic, environmental ME/EN 351
Noise dose exposure: Undergraduate communication, electroacoustic, and environmental noise control laboratory ME/EN 351
Noise generator random Bruel and Kjaer ME/EN 351
Noise pollution: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Noise pollution: Undergraduate communication, electroacoustic, and environmental noise control laboratory ME/EN 351
Noise: Student laboratory in psychoacoustics MI/PS 414
Nondistructive ultrasonic, magnetic-particle, penetrant, and radiographic testing of materials IN/EN 268
Nonlinear oscillations: Computer assisted course in biomathematics MI/MA 418
Non-engineering students microcomputer laboratory CA/CS 46
Non-mathematics major: Computer-assisted elementary mathematical models for now-math majors MT/MA 492
Non-science majors courses in energy, environment, chemical technologies NY/CH 548
Non-science majors: Activity based format for anatomy and physiology laboratory LA/BZ 331
Non-science majors: Application of social psychology to behavior and belief MI/PS 410
Non-science majors: Basic principles applied radiation physics NY/PH 599
Non-science majors: Computer assisted economics lessons IN/SZ 260
Non-science majors: Computer assisted instruction in intermediate algebra for business students MA/MA 369
Non-science majors: Computer based cognitive psychology laboratory PA/PS 784
Non-science majors: Computer oriented calculus using finite differences and discrete models NY/MA 622
Non-science majors: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Non-science majors: Computer-assisted elementary mathemathetical models for now-math majors MT/MA 492
Non-science majors: Construction of inexpensive environmental chamber NY/BZ 571
Non-science majors: Curriculum development in plant, animal, and microbial physiology SD/BZ 813
Non-science majors: Demonstration and laboratory equipment for acoustics and electronics WI/PH 944
Non-science majors: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Non-science majors: Development of interdisciplinary social science research skills AL/IN 13
Non-science majors: Development of laboratory alternatives in introductory biology GA/BZ 184
Non-science majors: Development of undergraduate history of science course and laboratory MN/IN 452
Non-science majors: Electronics course based on integrated circuits IA/PH 275
Non-science majors: Electronics technology laboratory for a two year degree TX/PH 842
Non-science majors: Energy and sun and synthesis of astronomy and technology CO/PH 122
Non-science majors: Energy awareness in engineering physics PA/PH 771
Non-science majors: Environmental plant growth control for students of technical agriculture MN/BZ 459
Non-science majors: Environmental project oriented field and laboratory science classes CA/EZ 52
Non-science majors: Equip and assemble a solar laboratory CO/ZZ 120
Non-science majors: Equipment enhancement of general and organic chemistry courses AL/CH 8
Non-science majors: Equipment for forensic science laboratory CT/ZZ 139
Non-science majors: Experimental and seminar approaches in introductory sociology TX/SZ 836
Non-science majors: Experimental design for physiology concept reinforcement and skill acquisition CA/BZ 75
Non-science majors: Experimental psychology laboratory training program TX/PS 879
Non-science majors: Field experience in botany, geology, oceanography, and interdisciplinary science FL/IN 159
Non-science majors: First year calculus with computer CT/MA 145
Non-science majors: Fluid power systems laboratory equipment for technology students MI/EN 401
Non-science majors: Geology laboratory improvement OK/EZ 724
Non-science majors: Guided design projects for physical science course WV/IN 927
Non-science majors: Hands-on approach to introductory physiology IL/BZ 198
Non-science majors: Improvement in public understanding of chemicals in food NY/CH 559

Non-science majors: Improvement in statistics instruction using calculators NY/MA 621
Non-science majors: Improvement of biological science for the elementary teacher AZ/BZ 24
Non-science majors: Improvement of reading skills using science course materials AZ/CH 26
Non-science majors: Improvement of teaching in science, mathematics, and social sciences IL/IN 205
Non-science majors: Improving data skills of sociology students through computer-assisted homework VA/SZ 900
Non-science majors: Improving scientific competency for students in allied chemical fields CT/CH 133
Non-science majors: Individualized mathematics and science instruction TX/IN 841
Non-science majors: Inquiry role approach for teaching physical science NE/PH 498
Non-science majors: Instructional equipmert for acoustics and noise control undergraduate courses NY/EN 625
Non-science majors: Instructional materials for engineering experimentation for sophomores and higher NJ/EN 531
Non-science majors: Instructional scientific equipment in chemistry for minority students MD/CH 356
Non-science majors: Instructional solar laboratory MA/ZZ 371
Non-science majors: Instructional videocassettes on energy topics MS/PH 467
Non-science majors: Instrumental analysis capabilities improvement for undergraduates KY/CH 316
Non-science majors: Instrumentation implementation for teaching contemporary science techniques MS/IN 461
Non-science majors: Integrated science laboratory module improvement TX/IN 839
Non-science majors: Interactive study group instructional strategy for nutritional science TX/BZ 857
Non-science majors: Introductory astronomy teaching aids and laboratory equipment SD/PH 811
Non-science majors: Introductory physical geology for law enforcement studies students OH/EZ 679
Non-science majors: Introductory physics with an engineering ambience for non-science majors NY/PH 560
Non-science majors: Investigative introductory geology course in the field in Montana IN/EZ 246
Non-science majors: Laboratory assistance videotapes for life science CA/BZ 73
Non-science majors: Laboratory assisted biology and chemistry for two-year college NC/IN 638
Non-science majors: Laboratory simulations in two-year, private liberal arts college OK/IN 722
Non-science majors: Lecture vitalization using LAP-dissolve projection NY/CH 590
Non-science majors: Microcomputer laboratory for non-engineering students CA/CS 46
Non-science majors: Model testing studio for architectural structures PA/EN 775
Non-science majors: Modular and multimedia approach to introductory statistics OH/MA 694
Non-science majors: Modular approach to introductory course in computer science MI/CS 409
Non-science majors: Modular materials that assist biology students in investigation IL/BZ 235
Non-science majors: Modularizing an elementary statistics course for behavioral science students IA/MA 270
Non-science majors: Modules in aquatic microbiology for microbiology, non-microbiology courses NY/BZ 619
Non-science majors: Multiple instructional innovations in introductory economics IL/SZ 211
Non-science majors: Multiple viewing microscope for teaching advanced methods in microbiology NY/BZ 609
Non-science majors: Natural science designed for the disadvantaged learner CA/IN 85
Non-science majors: New Optics Laboratory Course for Non-Physicists MA/PH 374
Non-science majors: Optics for pre-college science teachers and scientists NY/EN 627
Non-science majors: Perception laboratory apparatus for general undergraduate psychology teaching IL/PS 223
Non-science majors: Physics of music for music oriented students CA/PH 81
Non-science majors: Physiological ecology for environmental and allied health students ME/BZ 348
Non-science majors: Physiology laboratory enrichment for non-science majors NJ/BZ 530
Non-science majors: Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Non-science majors: Principles of biomedical electronic instrumentation NY/PH 598
Non-science majors: Programmable data acquisition system for undergraduate aerospace engineering laboratories TX/EN 873
Non-science majors: Restructuring undergraduate laboratory teaching in biology SC/BZ 802
Non-science majors: Science laboratory project in support of community research needs CA/BZ 66
Non-science majors: Self paced minicourses in biology for the general student VA/BZ 896
Non-science majors: Self-paced materials for a competency-based fundamental science curriculum MI/IN 405
Non-science majors: Self-paced modules for anatomy and physiology courses IN/BZ 247
Non-science majors: Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
Non-science majors: Sensory basis of art and human communication FL/IN 172
Non-science majors: Simulation experiments for physics foundations course VT/PH 885
Non-science majors: Single Concept Video Tapes and Observational Laboratories for Astronomy SC/PH 798
Non-science majors: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Non-science majors: Small computer for students and faculty in several departments CA/IN 67
Non-science majors: Student laboratory in psychoacoustics MI/PS 414
Non-science majors: Student participation experiments in elementary physics PA/PH 773
Non-science majors: Subdividing general biology into competency, essential knowledge, multiple-choice courses MO/BZ 473
Non-science majors: Teaching acoustics and speech with real time spectrum analyzers AR/PH 40
Non-science majors: Teaching of thermoluminescent dosimetry of environmental radiation IN/PH 242
Non-science majors: Teaching philosophy of science with a laboratory IL/ZZ 206
Non-science majors: Training undergraduate science majors in science reporting NY/IN 602
Non-science majors: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Non-science majors: TV computer graphics in large lecture classes WI/ZZ 943
Non-science majors: Undergraduate meteorological laboratory equipment WA/ZZ 921
Non-science majors: Undergraduate oceanographic curriculum rice university TX/EZ 845
Non-science majors: Undergraduate statistics laboratory IL/IN 213
Non-science majors: Unified lectures with discipline-differentiated labs for elementary statistics NY/MA 579
Non-science majors: Unified science course for minimally motivated students MA/IN 397
Non-science majors: Videotapes and worksheets for alternative remedial instruction in chemistry CA/CH 72
Non-science majors: Visual and tutorial general biology for deaf students DC/BZ 149
Norelco Phillips powder X-ray diffraction IL/EZ 236
North Star floppy disk storage WI/IN 946
North Star MDS-H micro disk system PA/CH 787
Northern Scientific Co. multichannel analyzer TN1705 VT/PH 887
Nova 1220 CPU with 8K memory, Data General FL/MA 171
Nuclear chemistry laboratory equipment for two-year college CO/CH 119
Nuclear coincidence techniques system NY/PH 592
Nuclear Data fast coincidence unit ND900 MN/PH 436
Nuclear detection laboratory gamma spectrometry GA/EN 179
Nuclear detection laboratory time analysis GA/EN 179
Nuclear instrumentation: Advanced physics and nuclear medicine technology laboratory improvement project NY/PH 592
Nuclear Instruments GFC 100 windowless flow counter IN/PH 241
Nuclear magnetic resonance instruction for organic-analytical chemistry laboratories LA/CH 334
Nuclear magnetic resonance spectrometer Perkin Elmer AL/CH 18 LA/CH 334 MS/CH 465 SC/CH 801
Nuclear magnetic resonance spectrometer procurement for course improvement GA/CH 174
Nuclear magnetic resonance spectrometer Varian IA/CH 273 NM/CH 546 OH/CH 705 OR/CH 744
Nuclear magnetic resonance spectrometry in undergraduate teaching and research IN/CH 248
Nuclear magnetic resonance spectrometry: Addition of mass spectrometry to a spectrometric analysis course OR/CH 741
Nuclear magnetic resonance spectrophotometer Varian CT/CH 142
Nuclear magnetic resonance spectroscopy NM/CH 546
Nuclear magnetic resonance spectroscopy for monitoring individual chemistry projects WI/CH 932
Nuclear magnetic resonance spectroscopy in the undergraduate chemistry curriculum OH/CH 705
Nuclear magnetic resonance spectroscopy in undergraduate organic chemistry laboratory IA/CH 273
Nuclear medicine physics laboratory NY/PH 592
Nuclear physics experiments for physics majors MN/PH 436
Nuclear physics laboratory for science and non-science majors VT/PH 887
Nuclear power: Undergraduate health physics degree program MO/PH 479
Nucleic acids: Biochemical methods laboratory CA/IN 95
Nucleotide analysis: Biochemistry laboratory emphasizing current research techniques CA/CH 56
Nucleus Inc. absorber set A15 NY/PH 599
Nucleus Inc. model 500 L scaler MD/IN 360
Nucleus Inc. scintillation spectrometry system AA-2010 NY/PH 599
Nucleus Inc. survey meter S-101 NY/PH 599
Nucleus Inc. well counter MD/IN 360

Nucleus ML-2 lab monitor NJ/IN 534
Numerical analysis computer-based laboratory KS/CS 306
Numerical analysis: Application of modern quantitative techniques to biological problems NY/BZ 632
Numerical experimentation: Computer-based laboratory for introductory numerical analysis KS/CS 306
Numerical methods: Computer oriented calculus using finite differences and discrete models NY/MA 622
Nurses: Improving scientific competency for students in allied chemical fields CT/CH 133
Nursing chemistry: Individualized mathematics and science instruction TX/IN 841
Nursing practice model with orifices for insertions AK/BZ 20
Nursing program licensed practical scientific equipment AK/BZ 20
Nursing students human anatomy physiology laboratory MS/BZ 471
Nursing students: Human body physics laboratory for health sciences students IL/PH 201
Nursing students: Undergraduate medical instrumentation laboratory in engineering and allied health CA/EN 57
Nursing support courses: Self-paced modules for anatomy and physiology courses IN/BZ 247
Nursing: Experimental design for physiology concept reinforcement and skill acquisition CA/BZ 75
Nursing: Human anatomy and introductory biology for two-year allied health LA/BZ 333
Nursing: Mastery learning with computer assisted testing OH/CH 673
Nursing: Mathematics for students in the allied health technologies VA/MA 910
Nursing: Undergraduate training for chemistry majors, minors and medical technologists AL/CH 10
Nursing: Videotapes and worksheets for alternative remedial instruction in chemistry CA/CH 72
Nutrient analysis: Scientific equipment for foods and nutrition laboratory instruction CA/ZZ 59
Nutrition laboratory instruction equipment CA/ZZ 59
Nutrition of fish: Instructional scientific equipment program RI/BZ 794
Nutritional science instructional strategy TX/BZ 857
Nutritional science laboratory NY/BZ 566
Nutrition: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Nutrition: Improving scientific competency for students in allied chemical fields CT/CH 133
Nutrition, food science, dietetics laboratory IN/ZZ 255
Nystrom life size anatomical model, multimedia kit-2HE200T AL/BZ 11
Observation and inference: Instructional ethnographic laboratory CA/SZ 92
Observatory for geneal astronomy courses and student projects GA/PH 186
Obstruction accessories channel OR/EN 733
Occupational therapy: Learning concepts of therapeutic exercise through specialized laboratory experiences MA/ZZ 370
Oceanograhy: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Oceanographic curriculum rice university TX/EZ 845
Oceanographic instrument and books: Undergraduate oceanographic curriculum rice university TX/EZ 845
Oceanography: Independent field marine laboratory for two-year college students FL/BZ 158
Oceanography: Marine science fluorometric determination of chlorophyll and water movement NY/ZZ 573
Oceanography: Mathematics and computing for undergraduate marine scientists NY/MA 572
Oceanography: Science laboratory project in support of community research needs CA/BZ 66
Oceanography: Undergraduate research program in marine biology CA/BZ 82
Oceanography: Underwater side scan sonar system FL/EN 160
Oceanography, field experience FL/IN 159
Ocean: Underwater side scan sonar system FL/EN 160
Octave analysis filter B and K MN/EN 454
Ohaus Dial-O-Gram balance CH310 OK/CH 710
Ohm meter Simpson PA/PH 773
Ohmic contacts: Semiconductor material and device project laboratory stressing data validation NY/EN 628
Oil drop apparatus Millikan Cenco AL/CH 8
Oil: Scientific exploration equipment for undergraduate geophysics instruction HI/EZ 189
OLIS Inc. analog computer NE/CH 501
Olympus camera body OM-1 and F/3.5 macro MC lens SC/BZ 809
Olympus OM-1 camera SD/PH 811
Olympus phase contrast microscopes BHB and BHC TX/BZ 856
Omniscribe chart recorders Houston VWR Scientific, IA/BZ 277
Omniscribe recorder Houston instruments MA/CH 373
Omnitec 701R acoustic coupler MA/EN 392
One semester integrated chemistry laboratory for biologically oriented students MA/CH 380
Ontel A4000 APL/ASCII video display terminal CT/MA 145
On-line computer: Centralized data acquisition system for undergraduate chemical engineering laboratory CO/EN 121
Open channel flow experiments OR/EN 734
Open channel flow fluid mechanics laboratory OR/EN 733
Operant behavior systems Lafayette NC/PS 640
Operant chambers Lafayette Co. KY/PS 321
Operant conditioning: A computer controlled experimental psychology laboratory for undergraduates MS/PS 469
Operant conditioning: Biofeedback laboratory for undergraduate independent research OH/PS 670
Operant conditioning, equipment psychology KY/PS 312
Operant conditioning, laboratory equipment KY/PS 321
Operant programming apparatus Coulbourn TX/PS 843
Operant test environment animal Coulbourn TX/PS 879
Operating system Digital Equipment Corp. WV/CS 925
Operating system software OS/8 OK/IN 722
Operating systems computer course NJ/CS 532
Operating systems: Environment simulator for systems software development TN/CS 831
Operational amplifiers Pasco PA/PH 785 TX/PH 849
Operational amplifiers: Texts and labs for minicourses in electronics for scientists IA/PH 284
Operations research for business students with algebra background MS/MA 463
Operations research: Locational analysis in undergraduate geography and urban planning IA/SZ 291
Operator: Engineering design learned using computers and microprocessor simulated plants IN/EN 264
OPL interface unit Mult-Tek WA/BZ 920
Optical analyzer stress Ealins UT/PH 881
Optical bench components Ealing Corp. RI/EN 791
Optical bench flatbed Gaertner MO/PH 477
Optical ellipsometer Saertner UT/PH 881
Optical equipment for transfer of map data MA/EZ 367
Optical Fourier system Space Optics UT/PH 881
Optical information processing experiments for undergraduates TX/EN 859
Optical instrumentation MA/PH 374
Optical methods: Teaching fluorescence assay in a biochemistry laboratory course CA/BZ 89
Optical mineralogy color television programs NY/EZ 551
Optical phenomena: Development of solid state laboratory for undergraduate electrical engineers IN/IN 259
Optical properties: Solid state physics laboratory for seniors CA/PH 55
Optical scan card reader Hewlett Packard KS/ZZ 299
Optical stimulator Maxwellian color vision MA/PS 383
Optical table accessories CO/ZZ 120
Optics applied liberal arts students ID/PH 193
Optics diffraction system Pasco Scientific IL/PH 207
Optics experiments: Up-grading of undergraduate junior and senior physics laboratory KS/PH 298
Optics for pre-college science teachers and scientists NY/EN 627
Optics laboratory course UT/PH 881
Optics Laboratory Non-Physicists MA/PH 374
Optics laser applications RI/EN 791
Optics laser physics laboratory WI/PH 931
Optics system PASCO UT/PH 881
Optics teaching kit Metrologic PA/PH 773
Optics: Laser applications and modern optics RI/EN 791
Optics: Update of holographic laboratory equipment for engineering technology students WI/PH 939
Optics: X-ray diffraction unit for geology, physics, and chemistry WI/IN 951
Optional activities for undergraduate animal biology students OK/BZ 719
Options in junior and senior year in professional courses NY/EN 633
Optometry students electromagnetic specification laboratory TN/PH 823
Ordered learning: Development of interdisciplinary social science research skills AL/IN 13
Organic carbon analyzer Beckman PA/EN 776
Organic chemistry analytical atomic absorption mass spectrometry NY/CH 630
Organic chemistry audiovisual prelab demonstrations TN/CH 833
Organic chemistry combustion solution calorimetry WV/CH 929
Organic chemistry course improvement by NMR acquisition WA/CH 924
Organic chemistry courses equipment enhancement AL/CH 8
Organic chemistry laboratory experiments modernization OH/CH 702
Organic chemistry laboratory LAP dissolve slide presentations NE/CH 497
Organic chemistry laboratory modernization TX/CH 840
Organic chemistry laboratory nuclear magnetic resonance spectroscopy IA/CH 273
Organic chemistry laboratory spectrophotometers WA/CH 919
Organic chemistry laboratory updating AL/CH 18
Organic chemistry laboratory: Nuclear magnetic resonance spectroscopy in the undergraduate chemistry curriculum OH/CH 705
Organic chemistry LAP dissolved models GA/CH 185
Organic chemistry mass spectrometer WI/CH 936
Organic chemistry NMR spectrometer NC/CH 635
Organic chemistry structural analysis MA/CH 373
Organic chemistry: Computer assisted teaching of organic synthesis MA/CH 389

Organic chemistry: Economics of undergraduate laboratory instruction OH/CH 664
Organic chemistry: Equipment for upper division undergraduate applied chemical laboratory work OR/CH 744
Organic chemistry: Mass spectrometry for undergraduates using a Varian EM-600 TX/CH 863
Organic chemistry: Nuclear magnetic resonance spectrometry in undergraduate teaching and research IN/CH 248
Organic chemistry: Nuclear magnetic resonance spectroscopy NM/CH 546
Organic laboratories project-oriented NY/CH 615
Organic laboratory NMR mass spectroscopy VT/CH 889
Organic laboratory NMR spectroscopy NY/CH 612
Organic research: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Organic synthesis computer teaching MA/CH 389
Organic-analytical chemistry laboratories nuclear magnetic resonance LA/CH 334
Organic, student research laboratories CA/CH 76
Organismic biology laboratory neurophysiological behavioral experiments MD/BZ 365
Organs removable plastic anatomical model AK/BZ 20
Oriel resonator mirrors WI/PH 931
Orifices insertions nursing practice model AK/BZ 20
Orion pH meter 301 TX/CH 844
Orion Research ion meter 407A MA/CH 380
Orion specific ion meter 407 RI/BZ 794
Ortec hyperpure germanium gamma spectroscopy system NY/PH 592
Ortec Inc. NIM bin and voltage power supply 401M/402M VT/PH 887
Ortec Inc. silicon surface barrier detector BA-017-050-100 VT/PH 887
Ortec Inc. spectroscopy amplifier 485 VT/PH 887
ORTEC main amplifier 485 MN/PH 436
Ortec NIM modules for SCA IN/PH 241
ORTEC preamplifier 120-3F NY/PH 599
ORTEC scintillation preamplifier 113 MN/PH 436
Ortec single channel gamma spectrometry system NJ/IN 534
ORTEC spectroscopy amplifier 472 NY/PH 599
ORTEC timing single channel analyzer 551 MN/PH 436
Oscillator analyzer General Radio GA/PH 181
Oscillator audio Hewlett Packard NC/PS 636
Oscillator grinder sonic Brinkman Polytron AL/IN 16
Oscillator Hewlett Packard TX/EN 852
Oscillator voltage controlled Coulbourn Instruments OH/PS 670
Oscillographic recorder Hewlett Packard KY/EN 322
Oscilloscope autoerase storage camera Tektronix NY/BZ 549
Oscilloscope B and K Precision Corp. NC/PH 637
Oscilloscope bistable storage Tektronix AZ/EN 25
Oscilloscope camera tektronix GA/PH 183
Oscilloscope camera Tektronix KY/EN 322
Oscilloscope digital Narco Biosystems NY/BZ 632
Oscilloscope digital storage Narco MO/BZ 472
Oscilloscope dual beam storage Tektronix ND/BZ 655
Oscilloscope dual trace Ballentine TN/PH 820
Oscilloscope dual trace Tektronix SC/EN 803
Oscilloscope Heath IA/PH 293 MI/PS 414
Oscilloscope Hewlett Packard CA/EN 78 MI/IN 423
Oscilloscope mainframe Tektronix MO/EN 483
Oscilloscope Pasco PA/PH 785
Oscilloscope square wave stimulator Stoelting Co. OK/PS 728
Oscilloscope storage Tektronix MD/BZ 365 ME/BZ 348 MI/PH 429 PA/PS 760 SC/EN 803
Oscilloscope Tectronix AL/CH 18
Oscilloscope Tektronix CO/PH 110 CT/CH 141 GA/PH 175 IL/BZ 215 KS/P[illegible]3 KS/EN 304 KY/EN 322 MN/CS 451 NJ/BZ 530 N[illegible]540 NY/EN 628 OR/EN 740 TX/PH 842 VA/CS 913 WI/PH 944
Oscilloscope Tektronix recording NY/EN 603
Oscilloscope Varian OH/CH 705
Oscilloscopes Dual Trace Ballantine IL/PH 201
Oscilloscopes storage Tektronix IA/BZ 277
Oscilloscopes Tektronix CA/PH 77 FL/IN 167 NY/PH 598
Osmometer Advanced Instrument MN/BZ 446
Osmometer Advanced Instruments VWR Scientific, IA/BZ 277
Osmometer vapor pressure Wescor MO/BZ 472
Otter sampling trawl Sterling FL/BZ 158
Outboard motor Johnson FL/IN 153
Output input board serial NE/CS 502
Output input devices Interdata GA/EN 180
Oven drying Blue-M DC/PS 147
Oven Thelco NE/BZ 499
Overcurrent relaying: Laboratory simulation of electric power transmission systems TN/EN 822
Overhead projector Cenco Tops AL/CH 8
Overhead projector 3M AL/EZ 1 AL/MA 6
Oxford automatic dispensor CA/BZ 69
Oxides nitrogen monitor Monitor Labs IN/EN 267
Oxygen analyzer Applied Electrochemistry Inc. IA/BZ 277
Oxygen analyzer Beckman NY/BZ 566
Oxygen analyzer Servomex PA/BZ 788
Oxygen bomb calorimeters Parr WV/CH 929
Oxygen electrode with recorder Yellow Springs CT/BZ 137
Oxygen meter dissolved Yellow Springs CA/BZ 68 OH/BZ 696
Oxygen meter dissolved Yellow Springs meter RI/BZ 794
Oxygen meter dissolved YSI FL/BZ 158
Oxygen meter Yellowstone TX/EZ 845
Oxygen meter YSI CA/CH 56
Oxygen microbomb calorimeter Phillipson NE/BZ 499
Oxygen monitoring: Biochemistry laboratory emphasizing current research techniques CA/CH 56
Oxygen probe BOD Yellow Springs Instruments VA/IN 901
Ozone generator Horizon Ecology VA/EN 895
O'Haus balance 6010PC IA/ZZ 283
Pacific photometric telescope photometer system 2412 NJ/PH 518
Pacing flexibility: Modularizing an elementary statistics course for behavioral science students IA/MA 270
Packard Hewlett storage oscilloscope AZ/ZZ 23
Packard Tri-Carb spectrometer B2450 MN/BZ 438
Pages talking large class instruction OK/MA 727
Palmer respiration pump IL/BZ 198
PAM/D compiler Texas Instruments TX/IN 862
PAM/D monitor builder package Texas Instruments TX/IN 862
Panametrics ultrasonic pulser receiver 5055 OH/PH 678
Panasonic black white monitors audio MA/PS 388
Panasonic cassette editing recorder NV-9500 MI/CH 430
Panasonic cassette recorder NV-9200 MI/CH 430
Panasonic cassette recorder RQ309AVS IL/BZ 235
Panasonic color control unit WV-3702 OH/BZ 700
Panasonic color monitor TR-920V OH/BZ 700
Panasonic editing controller NV-A950 MI/CH 430 OH/BZ 700
Panasonic editing controller, MA/PS 388
Panasonic mini-wiper WJ530 AL/PS 17
Panasonic monochrome special effects generator WJ545P AL/PS 17
Panasonic monochrome video camera WV341P AL/PS 17
Panasonic TR 220 M TV sets OH/BZ 690
Panasonic video camera ac adaptor NV-B50 OH/BZ 700
Panasonic video camera NV-3700EN OH/BZ 700
Panasonic video cassette recorder editing unit, MA/PS 388
Panasonic video cassette recorder NV-9200 OH/BZ 700
Panasonic video cassette recorder NV-9400 OH/BZ 700
Panasonic video cassette recorder NV-9500 OH/BZ 700
Panasonic video cassette recorder player, MA/PS 388
Panasonic video cassette recorder, camera, monitor NC/PS 636
Panasonic videotape recorder NV-2121 MA/ZZ 391
Panasonic 14 inch video monitor TR195VB TN/SZ 828
Panosonic color video monitor for cassette tapes KS/PS 307
Paper electrophoresis apparatus Sargent Welch MI/BZ 424
Paper tape punch NJ/EN 517
Paper tape reader punch Heathkit NC/EN 645
Paramedical laboratory: Learning concepts of therapeutic exercise through specialized laboratory experiences MA/ZZ 370
Paramedical study: Mastery learning with computer assisted testing OH/CH 673
Parasitology: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Parke Davis ECG simulator 3150 CA/EN 57
Parr cell disruption bomb 4635 CO/CH 108
Parr oxygen bomb calorimeters WV/CH 929
Parr solution calorimeter MN/CH 441
Parr 1242 adiabatic bomb calorimeter IL/CH 202
Parr 1451 solution calorimeter IL/CH 202
Particle tester magnetic Magnaflux IN/EN 268
PASCO advanced educational optics system OS-9901 UT/PH 881
Pasco biomedical modular instrumentation series NY/PH 598
Pasco blood pressure recorder modules PA/PH 785
Pasco cardiovascular simulator NY/PH 598
Pasco cardiovascular simulator BE8101 TX/PH 849
Pasco counter, timers, power supplies PI8015 and PI8000 TX/PH 849
Pasco dual function generator 9301 WI/PH 944
Pasco electrocardiograph modules PA/PH 785
Pasco electronics physics engineering laboratory package MS/IN 461
Pasco Fourier synthesizer CA/PH 81
Pasco function generator TN/PH 820
Pasco mechanical heart simulator TN/PH 820
Pasco medical electronics modules BE series IL/PH 201
Pasco operational amplifiers BE8001 TX/PH 849
Pasco physics modules PI series IL/PH 201
Pasco power amplifier BE8003 TX/PH 849
Pasco Scientific Modular Medical Electronics GA/PH 183
Pasco Scientific OS-9252 diffraction optics system IL/PH 207
Pasco Scientific, medical electronic instrumentation packages, MN/PH 453
Pasco strip chart recorder TN/PH 820
Pasco Wheatstone bridge BE8004 TX/PH 849
Pasco 1010A oscilloscope PA/PH 785
Pasco 8001 operational amplifiers PA/PH 785
Pasco 8015 counter and timer PA/PH 785
PASLA serial interface board Interdata NE/CS 502
Passive solar heating: Solar thermal student laboratory and classroom demonstration CO/PH 123
Pathogenic microbiology: Centralized tissue culture facility for students in biological sciences OK/BZ 718
Pathology of fish: Instructional scientific equipment program RI/BZ 794

Patient monitor portable Tektronix Inc. IL/EN 234
PDP 11/03 computer system CA/EN 44
PDP 11/03 microcomputer Digital Equipment Corp. MA/EN 392
PDP 11/34 computer FL/PS 165
PDP 11/34 computer digital Equipment Corp. MA/EN 392
PDP 11/34 computer Digital Equipment Corp. OH/BZ 666
PDP 11/34 computer system KS/BZ 301
PDP 11/34A CPU Digital Equipment NY/EN 557
PDP-11/03 computer CA/SZ 92 CA/SZ 93
PDP-11/34 minicomputer DEC NH/EN 513
PDP-8 interface integrated circuit State Systems MI/PS 402
PDP-8/A minicomputer Digital Equipment Corp. MI/PS 402
PDS4 IMLAC minicomputer IA/SZ 290
Peakin Elmer double beam vis-uv spectrophotometer 200 VT/CH 886
Peasants: Data analysis exercises in anthropology MN/SZ 447
Pedagogical impact of microprocessor based computing systems IL/CS 225
Peeco, Inc. Roots air blower AF 2.5 inch frame RI/BZ 794
Peer group teaching: Research equipment in autotutorial science teaching in undergraduate physiology IL/BZ 215
Peer tutors: Audio-tutorial minicourses for college algebra and trigonometry IN/MA 249
Pen digitizer Graf IA/SZ 290
Penetrant, materials testing IN/EN 268
Pentax camera CA/SZ 104
Peptides: Nuclear magnetic resonance spectrometry in undergraduate teaching and research IN/CH 248
Perception laboratory apparatus for general undergraduate psycholo= gy teaching IL/PS 223
Perception: Tachistoscope for undergraduate experimental psycholo= gy RI/PS 792
Perception: Undergraduate psychology laboratory for experiments with human subjects TN/PS 834
Perception, laboratory equipment KY/PS 321
Perception, personality, physiological psychology problem-solving labs KY/PS 313
Perceptual human motor behavior IA/PS 289
Perceptual laboratory for technical students NY/PS 588
Percival Environator growth chamber SD/BZ 813
Percival environmental chambers I-35LL UT/BZ 882
Percival E-54U growth chamber LA/BZ 337
Percival incubator I-35VL MI/BZ 419
Percival Mfg. plant growth chamber MB-60B MN/BZ 446
Peripheral projection enclosure Viewlex Inc. AR/ZZ 41
Peripherals computer Digital Equipment LSI-11 MN/PH 455
Peripherals microcomputer Intel NY/EN 584
Peripherals microcomputer Motorola NY/EN 584
Peristaltic pump LKB ID/CH 197
Perkin Elmer atomic absorption spectrophotometer 272 TX/CH 838
Perkin Elmer atomic absorption spectrophotometer 360 PA/EN 776
Perkin Elmer atomic absorption spectrophotometer 373 CT/CH 132 IN/ZZ 251
Perkin Elmer chromatograph detector LC55 IN/CH 263
Perkin Elmer Corp. uv-visible scanning spectrophotometer 200 TN/EN 825
Perkin Elmer Co. pyrolyzer Pyroprobe 190 CT/ZZ 139
Perkin Elmer CRT computer terminal WA/BZ 920
Perkin Elmer data systems LA/PH 343
Perkin Elmer digital temperature controller 570-0701 FL/ZZ 161
Perkin Elmer DSC-1B differential scanning calorimeter CO/CH 116
Perkin Elmer gas chromatograph 3920B MA/CH 380
Perkin Elmer Hitachi NMR spectrometer IN/CH 248
Perkin Elmer infrared spectrophotometer 297 KS/ZZ 302
Perkin Elmer infrared spectrophotometer 397 CA/CH 76
Perkin Elmer infrared spectrophotometer 710 TN/CH 821
Perkin Elmer infrared spectrophotometer 7278 WA/CH 919
Perkin Elmer infrared spectrophotometer 727-B NE/CH 496
Perkin Elmer infrared spectrophotometer 735B OH/CH 702
Perkin Elmer liquid chromatograph series 2/1 KS/CH 309
Perkin Elmer liquid chromatograph 254-010 CA/EN 53
Perkin Elmer liquid chromatograph 601 IN/CH 263
Perkin Elmer nuclear magnetic resonance spectrometer R12B LA/CH 334
Perkin Elmer nuclear magnetic resonance spectrometer R24B MS/CH 465
Perkin Elmer nuclear magnetic resonance spectrometer R-24B SC/CH 801 WI/CH 932
Perkin Elmer recorder 570-0100 FL/ZZ 161
Perkin Elmer recorder, Hitachi 200 AL/CH 10
Perkin Elmer recording vis-uv spectrometer 550 NJ/CH 526
Perkin Elmer R-12 variable temperature accessory CO/CH 108
Perkin Elmer R-24B nuclear magnetic resonance spectrometer AL/CH 18
Perkin Elmer R-32 lock and spin-spin decoupler MA/CH 373
Perkin Elmer spectrofluorimeter MFP43 NE/CH 501
Perkin Elmer spectrophotomer recorder TN/CH 821
Perkin Elmer spectrophotometer, Hitachi 200 (uv-vis) AL/CH 10
Perkin Elmer terminal model 1100 CA/EN 97
Perkin Elmer uv spectrophotometer 571 WA/CH 919
Perkin Elmer uv-vis double beam spectrophotometer 570-000 FL/ZZ 161
Perkin Elmer uv-vis spectrophotometer 200 MS/CH 465
Perkin Elmer visible ultraviolet spectrophotometer 550 TN/CH 821
Perkin Elmer 570 recording spectrophotometer with cell programmer ND/CH 654
Perkin Elmer 710B infrared spectrophotometer MS/IN 461
Perkin Elmer 710B recording spectrophotometer PA/ZZ 766
Personal minicomputers to aid undergraduate instruction in computer design AL/EN 4
Personality programmer EPROM module Future Data MO/EN 484
Personality, perception, physiological psychology problem-solving labs KY/PS 313
Personalized instruction: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Personalized system of instruction for general psychology in spanish PR/PS 960
Personalized system of instruction: Competency-based self-paced algebra for students with weak mathematical backgrounds MI/MA 433
Pest management: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
PET computer Commodore ND/CH 656
Petrographic thin section equipment Ingram Ward NY/EZ 569
Petrography undergraduate studies NY/EZ 569
Petroleum: Scientific exploration equipment for undergraduate geophysics instruction HI/EZ 189
Petrology: Geology laboratory improvement OK/EZ 724
PH meter Acumet Fisher TX/IN 848
PH meter Beckman CA/IN 95
PH meter Chem-Mate Beckman MN/CH 456
PH meter Corning CA/BZ 69 NY/BZ 607 OR/BZ 731 VA/EN 895
PH meter Fisher NY/BZ 570
PH meter Fisher Accumat AZ/BZ 21
PH meter Orion TX/CH 844
PH meters Corning AL/CH 8 ID/CH 197
PH meters Sargent Welch Co. WY/BZ 954
PH meters Zeromatic Beckman NY/BZ 549
Pharmacia P-3 pump NY/IN 580
Pharmacological laboratory additions biopsychology core courses DC/PS 147
Pharmacology: Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Pharmacy majors: Project type experiments emphasizing molecular biochemistry for pre-professional students ND/CH 654
Pharmacy students drug analysis biological fluids VA/CH 907
Pharmacy: State-of-the-art instrumentation in drug analysis courses KS/CH 309
Phase contrast inverted microscope Nikon AZ/BZ 21
Phase contrast microscope American Optical MI/PH 416
Phase contrast microscope Amplival MO/ZZ 482
Phase contrast microscope Balplan Bausch Lomb VA/BZ 905
Phase contrast microscope Bausch Lomb NC/BZ 639
Phase contrast microscope Nikon OK/BZ 718
Phase contrast microscopes Olympus TX/BZ 856
Phase contrast microscopes Zeiss UT/BZ 882
Phase contrast objectives 10X, 20X, 40X, 100X NY/BZ 609
Phase diagrams thermodynamaics education IA/EN 279
Phase microscopy for developmental biology CT/BZ 144
Phase shifter Multi-AMP TN/EN 822
Phaseangle meter Westinghouse TN/EN 822
Phasestar American Optical SC/BZ 800
Philips Vertical Diffraction Goniometer Assembly MA/EZ 396
Phillips copper and chromium x-ray tubes WI/IN 951
Phillips data measuring system WI/IN 951
Phillips DeBye-Scherrer cameras WI/IN 951
Phillips diffraction system PW-1720 WI/IN 951
Phillips diffractometer goniometer and accessories WI/IN 951
Phillips Laue camera WI/IN 951
Phillips Norelco powder X-ray diffraction system IL/EZ 236
Phillipson oxygen microbomb calorimeter NE/BZ 499
Philosophy of science: Self-paced multidisciplinary course for non-= science majors afraid of science IL/IN 229
Philosophy science laboratory IL/ZZ 206
Phipps and Bird electrode holder NM/BZ 540
Phipps and Bird square wave stimulator 7092-611 WA/BZ 922
Photo interpretation aerial laboratory environment IL/SZ 237
Photocell control system Lafayette Instrument Co. AZ/BZ 32
Photochemistry: Laboratory equipment for physical chemistry labs IL/CH 202
Photoconductivity: Semiconductor material and device project labo= ratory stressing data validation NY/EN 628
Photoelectric slide reader projector Lafayette Instruments AR/PS 38
Photofluorometer Coleman VT/CH 886
Photofluorometer spectrophotometer undergraduate chemistry VT/CH 886
Photogeology undergraduate instruction CA/EZ 87
Photogrammetry: Improvement of stereoplotter for engineering students WI/EN 948
Photography underwater Nikon cameras CA/BZ 82
Photography: Equip and assemble a solar laboratory CO/ZZ 120
Photography: Perceptual laboratory for technical students NY/PS 588
Photometer E. B. and G. PA/PS 765
Photometer flame Coleman IA/BZ 277
Photometer photometric telescope Pacific NJ/PH 518

Photometer radiometer probes Tektronix TN/PH 823
Photometer recorder chemiluminescence Aminco Chem-Glow AL/IN 16
Photometer S and M School Instrument Div. WI/PH 939
Photometer scanner: Modern optics and laser physics laboratory for four-year college WI/PH 931
Photometer submersible Protomatic VA/IN 901
Photometric sensor NM/BZ 540
Photometric telescope photometer system Pacific NJ/PH 518
Photomic Nikon camera lenses MA/CH 384
Photomicrography: Independent field marine laboratory for two-year college students FL/BZ 158
Photos aerial stereo interpretation Bausch Lomb IL/SZ 237
Photostimulator Grass Instrument Co. OK/PS 728
Photosynthetic chamber Hoefer Scientific IN/ZZ 251
Phycology: Teaching about algae with an audio-tutorial module ND/BZ 660
Physchology computer laboratories FL/PS 165
Physical Analytical Chemistry Laboratory PA/CH 782
Physical analytical, inorganic chemistry laboratories NY/CH 574
Physical anthropology human skeletons hominid fiberglass casts TX/SZ 850
Physical chemistry digital data NV/CH 506
Physical chemistry experiments NE/CH 501
Physical chemistry experiments allowing direct visualization of molecular events NJ/CH 526
Physical chemistry for life sciences AR/CH 39
Physical chemistry laboratory equipment IL/CH 202
Physical chemistry laboratory experiments for students in life sciences SD/CH 817
Physical chemistry laboratory gel permeation chromatography MN/CH 450
Physical chemistry: Nuclear magnetic resonance spectroscopy NM/CH 546
Physical chemistry: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Physical education: Process approach to understanding human perceptual and motor behavior IA/PS 289
Physical electrical measurements laboratory ME/PH 352
Physical electronics: Microwave equipment for undergraduate physics laboratories FL/PH 170
Physical geography: Student interpretation of landsat imagery NC/EZ 649
Physical geology law enforcement studies OH/EZ 679
Physical geology: Geology laboratory improvement OK/EZ 724
Physical geology: Student interpretation of landsat imagery NC/EZ 649
Physical intuition: Cataloguing student conceptual models in introductory university physics MA/PH 390
Physical measurements electronic instrumentation TX/PH 849
Physical measurements: Advanced instrumental analysis CO/CH 116
Physical measurement: Digital electronics laboratory interfaced to an on-line computer NC/PH 637
Physical measurement: Human body physics laboratory for health sciences students IL/PH 201
Physical methods chemistry laboratory with improved data handling techniques VA/CH 908
Physical science computer graphics KS/CH 294
Physical science course design projects WV/IN 927
Physical science engineering mathematical biology VA/MA 897
Physical science inquiry role NE/PH 498
Physical sciences course Piagetian-based NE/IN 500
Physical sciences course preservice teachers NE/IN 500
Physical science, instruction planetarium AR/ZZ 41
Physical therapy: Learning concepts of therapeutic exercise through specialized laboratory experiences MA/ZZ 370
Physical therapy: Process approach to understanding human perceptual and motor behavior IA/PS 289
Physical thought: Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
Physical, social biological sciences computer assisted instruction WV/CS 925
Physician and patient interactions: Innovative undergraduate course in social psychology and health CA/ZZ 96
Physics advanced laboratory courses CO/PH 110
Physics and technology of materials OH/PH 681
Physics Applied lock in amplifier GA/PH 181
Physics cataloguing conceptual models MA/PH 390
Physics chemistry laboratories computer interface NY/PH 595
Physics computer aided instruction GA/IN 176
Physics computer augmented undergraduates OR/PH 742
Physics computer based modular exercies OH/PH 674
Physics computer graphics capability FL/PH 154
Physics computer graphics simulations, FL/PH 156
Physics computer simulated experiments FL/PH 155
Physics computer tutorial programs KY/PH 314
Physics course current research CA/PH 63
Physics course remedial testing computer-based NY/PH 550
Physics course: Science fiction films PA/PH 781
Physics demonstrations for life science students MI/PH 416
Physics elementary experiments PA/PH 773
Physics engineering energy awareness PA/PH 771
Physics engineering laboratory package including Pasco electronics MS/IN 461
Physics engineering microcomputers OH/PH 678
Physics experiments modern CA/PH 79
Physics experiments nuclear MN/PH 436
Physics experiments premeds matter NH/PH 508
Physics foundations simulation experiments VT/PH 885
Physics health degree program MO/PH 479
Physics introductory engineering ambience NY/PH 560
Physics lab for biologists LA/PH 332
Physics laboratories computer data acquisition MN/PH 455
Physics laboratories microwave FL/PH 170
Physics laboratories: Cataloguing student conceptual models in introductory university physics MA/PH 390
Physics laboratory SD/PH 819
Physics laboratory computer terminals LA/PH 343
Physics laboratory electronics experiments IL/PH 210
Physics laboratory electronics teaching CA/PH 77
Physics laboratory experiments electronics IL/PH 210
Physics laboratory for architects AR/IN 37
Physics laboratory health equipment purchase TN/PH 824
Physics laboratory health students GA/PH 183
Physics laboratory human body health sciences IL/PH 201
Physics laboratory improvement MO/PH 477
Physics laboratory instruction introductory AL/PH 2
Physics laboratory instruction modern scientific techniques OH/PH 684
Physics laboratory mini-research projects NJ/PH 518
Physics laboratory nuclear VT/PH 887
Physics laboratory optics laser WI/PH 931
Physics laboratory solid state CA/PH 55
Physics laboratory undergraduate KS/PH 298
Physics labs experiments TX/PH 846
Physics majors experiments IL/PH 207
Physics modules Pasco IL/PH 201
Physics nuclear medicine laboratory NY/PH 592
Physics of music for music oriented students CA/PH 81
Physics problem solving computer TN/PH 832
Physics quantum mechanics MO/PH 476
Physics radiation basic principles NY/PH 599
Physics radiation detection equipment IN/PH 241
Physics self-paced instruction SC/PH 797
Physics short courses NY/PH 616
Physics video tape modules MO/PH 478
Physics video taped problem solutions WI/PH 934
Physics: Applied optics for liberal arts students ID/PH 193
Physics: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Physics: Courseware for microprocessor and microcomputer instruction IN/ZZ 239
Physics: Demonstration and laboratory equipment for acoustics and electronics WI/PH 944
Physics: Development of solid state laboratory for undergraduate electrical engineers IN/IN 259
Physics: Digital electronics laboratory interfaced to an on-line computer NC/PH 637
Physics: Ealing-Daybell Stern-Gerlach apparatus OH/PH 691
Physics: Electromagnetic specification laboratory for optometry students TN/PH 823
Physics: Electronic measurements for scientists GA/PH 175
Physics: Electronics course based on integrated circuits IA/PH 275
Physics: Electronics instrumentation laboratory for life sciences students PA/PH 785
Physics: Electronics technology laboratory for a two year degree TX/PH 842
Physics: Electronics with biomedical applications MN/PH 453
Physics: Energy and sun and synthesis of astronomy and technology CO/PH 122
Physics: Fresh nan non-calculus introductory self-paced electronics laboratory AR/PH 36
Physics: Inquiry role approach for teaching physical science NE/PH 498
Physics: Instructional videocassettes on energy topics MS/PH 467
Physics: Instrumentation laboratory in two year college MA/PH 377
Physics: Interdisciplinary program in powder X-ray diffraction IL/EZ 236
Physics: Interdisciplinary undergraduate modular electrical and physical measurements laboratory ME/PH 352
Physics: Introductory astronomy teaching aids and laboratory equipment SD/PH 811
Physics: Laboratory course in modern practical optics UT/PH 881
Physics: Medical electronic instrumentation for pre-medical students TN/PH 820
Physics: Microcomputers in liberal arts science curriculum SD/PH 812
Physics: Microprocessors and microcomputers in undergraduate education UT/PH 883
Physics: Modern electronic instrumentation for physical measurements TX/PH 849
Physics: Multidisciplinary laboratory course for science majors CA/IN 103
Physics: Multidisciplinary science study project center for two-year college OR/IN 748
Physics: New Optics Laboratory Course for Non-Physicists MA/PH 374

Physics: Newton's Second Law experiment, F=ma during rapid impacts MI/PH 429
Physics: Observatory for geneal astronomy courses and student projects GA/PH 186
Physics: Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Physics: Polaroid interactive lecture system for use in demonstrations center PA/PH 767
Physics: Principles of biomedical electronic instrumentation NY/PH 598
Physics: Radioisotope usage for interdisciplinary sciences MD/IN 360
Physics: Self-paced junior/senior level quantum mechanics and statistical mechanics PA/PH 762
Physics: Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
Physics: Senior laboratory in applied acoustics measurements with minicomputer assistance IL/PH 219
Physics: Single Concept Video Tapes and Observational Laboratories for Astronomy SC/PH 798
Physics: Small computer for students and faculty in several departments CA/IN 67
Physics: Solar thermal student laboratory and classroom demonstration CO/PH 123
Physics: Teaching acoustics and speech with real time spectrum analyzers AR/PH 40
Physics: Teaching of thermoluminescent dosimetry of environmental radiation IN/PH 242
Physics: Telescope laboratory for introductory astronomy for mostly non-science majors GA/PH 177
Physics: Texts and labs for minicourses in electronics for scientists IA/PH 284
Physics: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Physics: Update of holographic laboratory equipment for engineering technology students WI/PH 939
Physics: Up-grading electronics courses IA/PH 293
Physics, chemistry geology, x-ray diffraction WI/IN 951
Physiograph KS/BZ 295
Physiograph accessories Narco Biosystems TX/BZ 837
Physiograph cabinet model CO/BZ 107
Physiograph Harvard Apparatus SD/BZ 813
Physiograph Narco CT/BZ 140
Physiograph Narco Bio Systems LA/PS 339
Physiograph Narco Biosystems AR/IN 34 MA/BZ 368 ME/BZ 348 NE/BZ 495 OH/BZ 696
Physiograph Narco BioSystems PA/PS 765
Physiograph Narco Biosystems Inc. ND/BZ 652
Physiograph Narco recording channels FL/BZ 151
Physiograph Narco Trace MN/BZ 446
Physiograph procurement human anatomy and physiology laboratories CO/BZ 107
Physiograph projector Narco Biosystems NY/BZ 549
Physiograph projector Narco BioSystems PA/BZ 788
Physiograph recording equipment Narco Biosystems TX/BZ 855
Physiograph time-event Narco Biosystems NY/BZ 576
Physiographs Narco Bio-systems CA/BZ 75
Physiograph, electrophoresis, biofeedback physiological experiments FL/BZ 151
Physiological and pharmacological laboratory additions to biopsychology core courses DC/PS 147
Physiological chemistry laboratory: Improvement of scientific instruments for undergraduate science instruction CA/BZ 69
Physiological ecology for environmental and allied health students ME/BZ 348
Physiological ecology: Comparative animal physiology laboratory OH/BZ 696
Physiological experiments physiograph, electrophoresis, biofeedback FL/BZ 151
Physiological models: Computer assisted course in biomathematics MI/MA 418
Physiological parameters vertebrates simultaneous recording NY/BZ 576
Physiological perception, personality, psychology problem-solving labs KY/PS 313
Physiological psychology basic laboratory equipment TX/PS 843
Physiological psychology laboratory PA/PS 755
Physiological psychology teaching laboratory for upper division college students OK/PS 728
Physiological psychology: Experimental psychology laboratory for undergraduate instruction NC/PS 640
Physiological psychology: Experimental psychology laboratory training program TX/PS 879
Physiological psychology: Laboratory equipment teaching perception, operant conditioning, psychobiology, and statistics KY/PS 321
Physiological psychology: Methods in neurobiology FL/IN 167
Physiological psychology: Physiology laboratories and audiovisual demonstrations for pre-health professions NE/BZ 495
Physiological psychology, laboratory LA/PS 339
Physiology anatomy animal mastery learning students AZ/BZ 30
Physiology anatomy Brady cassette sound/color filmstrips AP-15 AL/BZ 11
Physiology anatomy courses modules IN/BZ 247
Physiology anatomy laboratory format LA/BZ 331
Physiology anatomy laboratory human nursing students MS/BZ 471
Physiology and anatomy laboratories physiograph procurement CO/BZ 107
Physiology animal biology students MO/BZ 472
Physiology autotutorial research equipment IL/BZ 215
Physiology cell laboratory biochemistry AR/IN 34
Physiology concept reinforcement experimental design CA/BZ 75
Physiology estuarine ecology, limnology lab curricula NY/BZ 563
Physiology human anatomy instructional equipment AL/BZ 11
Physiology introductory IL/BZ 198
Physiology laboratories and audiovisual demonstrations for pre-health professions NE/BZ 495
Physiology laboratories animal plant biology majors NM/BZ 540
Physiology laboratory anatomy health sciences TX/BZ 837
Physiology laboratory animal comparative OH/BZ 696
Physiology laboratory courses zoology IA/BZ 277
Physiology laboratory data collection analysis TX/BZ 855
Physiology laboratory enrichment for non-science majors NJ/BZ 530
Physiology laboratory equipment CT/BZ 140 MN/BZ 446
Physiology laboratory for students in animal sciences WA/BZ 922
Physiology laboratory health science videotaped FM simulations ND/BZ 652
Physiology laboratory plant PA/BZ 780
Physiology microbiology, genetics, laboratory PA/BZ 789
Physiology of fish: Instructional scientific equipment program RI/BZ 794
Physiology vertebrate lecture, laboratory manuals, NY/BZ 593
Physiology: Application of modern quantitative techniques to biological problems NY/BZ 632
Physiology: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Physiology: Expansion of advanced biology laboratory experiences PA/BZ 788
Physiology: Introductory laboratory course in neurobiology MN/IN 434
Physiology: Purchase of scintillation counter MN/BZ 438
Physiology: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Physiology, ultracentrifugation methodologies KY/BZ 315
Physioscribes stimulator Stoelting IL/BZ 198
Physiotape cassette data recorder Narco Biosystems NE/BZ 495
Physiotape cassette data recorder Narco BioSystems PA/BZ 788
Physiotape prerecorded experiments Narco Biosystems NE/BZ 495
Piaget based general chemistry laboratory for science majors LA/CH 346
Piagetian approach introductory chemistry: FL/CH 173
Piagetian based introductory chemistry laboratory for science majors MS/CH 462
Piagetian based: Inquiry role approach for teaching physical science NE/PH 498
Piagetian theory: Laboratory remedial chemistry using structured open ended inquiry formats CO/CH 109
Piagetian-based physical sciences course for preservice teachers NE/IN 500
Piaget: Dynamic LAP dissolved models for organic chemistry GA/CH 185
Pica Blender Mill Pitchford MA/EZ 396
Pictorials: Computer generated phase diagrams in thermodynamaics education IA/EN 279
Pilot balloon Theodolite WA/ZZ 921
Pilot equipment and instrumentation for engineering technology training PA/EN 776
Pioneer head phones monitor 10 WI/PH 944
Pipet Rainin Digital Pipetman MD/IN 360
Pitchford Pica Blender Mill MA/EZ 396
Pi-bonded metal complexes: Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research PA/CH 758
Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Planetarium Helios Fisher Scientific IL/IN 229
Planetarium instrument Apollo Viewlex Inc. AR/ZZ 41
Planetarium laboratory for non-science major astronomy course IA/ZZ 281
Planetarium projector Apollo dome Viewlex IA/ZZ 281
Planimeter digitizable K and E IL/EZ 220 IL/EZ 221
Planimeter polar Trasco VA/IN 901
Plankton sampler Wildlife Supply Co. Clark Bompus NY/BZ 563
Plankton: Undergraduate oceanographic curriculum rice university TX/EZ 845
Planning urban locational analysis IA/SZ 291
Planning: Computer cartography in undergraduate geography IA/SZ 290
Plant anatomy: Scanning electron microscopy for undergraduate plant morphology instruction CA/BZ 60
Plant anatomy: Video microscope system for teaching wood anatomy MA/ZZ 391
Plant and animal developmental biology laboratory for biology majors CO/BZ 114
Plant and animal specimens CO/BZ 114
Plant animal physiology laboratories biology majors NM/BZ 540
Plant growth chamber PA/BZ 780

Plant growth chamber Percival Mfg. MN/BZ 446
Plant growth chamber Sherer MN/BZ 459
Plant growth chamber Sherer CEL-36-10 CT/BZ 138
Plant growth control technical agriculture MN/BZ 459
Plant identification computerized data analysis WA/BZ 920
Plant morphology instruction electron microscopy CA/BZ 60
Plant pathology: Experimental approach to study of botanical microorganisms UT/BZ 882
Plant pathology: Improved use of kodachromes and microscope slides in teaching OH/BZ 690
Plant physiology laboratory PA/BZ 780
Plant physiology laboratory course undergraduate improvement CT/BZ 138
Plant soil science teaching audio tutorial, self instructional AL/EZ 1
Plant surface: Scanning electron microscopy for undergraduate plant morphology instruction CA/BZ 60
Plant toxins: Improvement in public understanding of chemicals in food NY/CH 559
Plant water relations: Improvement of undergraduate plant physiology laboratory course CT/BZ 138
Plants simulated engineering design computers microprocessor IN/EN 264
Plant, animal, microbial physiology SD/BZ 813
Plasmas, transport phenomena GA/PH 181
Plasma: Short courses on special topics in physics NY/PH 616
Plastic organs removable anatomical model AK/BZ 20
Plastics laboratory mechanical properties CA/EN 53
Plastics Medical articulated skeleton AL/BZ 11
Plastics Medical skull model AL/BZ 11
Plate holder Byron Ellis Assoc. WI/PH 939
Platform stability Lafayette Instrument Co. AZ/BZ 32
PLATO computer CDC economics lessons MN/SZ 443
PLATO instruction in chemical IL/EN 231
PLATO instruction in chemical instrumentation IL/CH 216
PLATO lesson modules for biomedical instrumentation IL/EN 233
PLATO modules for teaching political science research methods MN/SZ 444
PLATO V terminal IL/EN 231
PLATO: Computer aided lessons on graphic communications for architecture students AZ/IN 28
Player cassette Audiotronics Corp. SC/BZ 809
Player recorder portable color MA/PS 388
Player Sound Page System 3M Co. OK/MA 727
Player video cassette Sony AK/BZ 20
Player video JCR TN/CH 833
Player, recorder video cassette Panasonic MA/PS 388
Plint Engineers Fan test setup, IL/EN 203
PLOT 10 software Tektronix IN/EN 269
Plot 50 statistics library Tektronix NY/BZ 558
Plotter Calcomp TX/EN 865 WI/ZZ 938
Plotter combinations programmable calculators IA/MA 287
Plotter digital Interactive ND/CH 656
Plotter digital Tektronix MI/MA 418 NH/EN 513
Plotter digital Zeta Corp. GA/EN 180
Plotter drum Calcomp MS/EN 464
Plotter graphic Hewlett Packard KS/ZZ 299
Plotter graphics Tektronix UT/PH 883
Plotter Hewlett Packard KY/EN 322 OH/EN 669
Plotter IBM MD/MA 357
Plotter interactive digital Tektronix OR/SZ 737
Plotter Micro Computing Machines CA/IN 67
Plotter minicomputer graphics Tektronix IL/PH 219
Plotter printer electrostatic Tektronix TX/EN 851
Plotter printer electrostatic Varian Statos 42 OH/BZ 666
Plotter printer Printronix UT/PH 883
Plotter Tektronix IN/EN 269
Plotter x-y Houston Instrument PA/PS 765
Plugboard system Allied Systems Corp. TX/PS 879
Pneumatic position control system Feedback Inc. OH/EN 669
Pointer wild teaching tube MA/ZZ 391
Polar planimeter Trasco VA/IN 901
Polarimeter AL/CH 5
Polariscope Technovate Corp. RI/EN 793
Polarizing microscope Dialux Leitz PA/EN 776
Polarizing microscope Hacker Instruments OK/EZ 724
Polarizing microscope: Audio visual color television programs in optical mineralogy NY/EZ 551
Polarograph Princeton Applied Research PA/CH 758
Polarograph recording Sargent Welch PA/CH 786
Polarographic analyzer Princeton Applied Research CO/CH 116
Polarography Atomic Absorption Spectrophotometry chemistry laboratories PA/CH 786
Polarography: New experiments in equilibrium and analysis MN/CH 437
Polaroid back for Nikon AFM Microflex camera ND/EZ 659
Polaroid camera Bison OH/EZ 680
Polaroid interactive lecture system PA/PH 767
Polaroid interactive lecture system for use in demonstrations center PA/PH 767
Polaroid Land camera CA/EN 88
Polaroid telescopically mounted camera SX-70 IL/IN 229
Polaron E760 vacuum evaporator MI/BZ 404
Polaron specimen coating apparatus E 5000 OH/BZ 699
Polishing wheels Burhler SC/EN 807
Political science mini-courses reading assignments OH/SZ 676
Political science research PLATO modules MN/SZ 444
Political science: Adaptive evaluation structure for computer based instruction IA/SZ 292
Political science: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Political: Adaptive evaluation structure for computer based instruction IA/SZ 292
Pollutants air environmental sampling monitoring IN/EN 267
Pollution air pump LaMotte Chemical Co. NC/ZZ 651
Pollution analysis: Environmental studies program field equipment project NC/ZZ 651
Pollution detection: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Pollution detection: Remote sensing for forestry students IL/EZ 220
Pollution survey: Environmental studies program field equipment project NC/ZZ 651
Pollution: Equipment for laboratories in aquatic ecology NY/BZ 607
Pollution: Measurements in environmental science TX/IN 848
Pollution: Pilot equipment and instrumentation for engineering technology training PA/EN 776
Polyacrylamide gel electrophoresis: Techniques in experimental cell biology for undergraduate biology majors AL/BZ 3
Polyanalyst Buchler disc gel electrophoresis ND/CH 654
Polyanalyst disc electrophoresis apparatus Buchler OR/BZ 731
Polyethylene tanks Nalgene OK/EN 729
Polygraph Grass Instruments AZ/BZ 32
Polygraph portable Grass Instrument IL/PS 223
Polygraph recorder Gilson WA/BZ 922
Polygraphs Narco FL/IN 167
Polymer laboratory: Laboratory revision with industrial emphasis MI/CH 422
Polymer processing laboratory equipment MA/EN 394
Polymers: Mechanical properties of plastics laboratory CA/EN 53
Polymetric tachisto projector 1459 B2 IL/PS 223
Polymorphic microprocessor based computer system 8813 MI/PS 414
Polyscience SR 6 polarimeter IL/CH 202
Polytron Brinkman sonic oscillator grinder AL/IN 16
Ponar grab dredge Wildco Co. NY/BZ 607
Pongids fiberglass casts National Museums Kenya TX/SZ 850
Population biology: General, molecular, and population genetics laboratory improvement MA/BZ 386
Population genetics laboratory improvement MA/BZ 386
Population management computer simulated KS/BZ 301
Population sampling: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Populations computer simulated demography, Ecology, evolution, KS/BZ 301
Portable cassette recorders FL/IN 159
Portable color camera, GC-4800 MA/PS 388
Portable color recorder player with charger, JVC CR-4400 MA/PS 388
Portable computer terminal Execuport APL IA/MA 274
Portable computing system Wang KS/MA 296
Portable electronic thermometer Atkins AZ/EZ 27
Portable gamma ray spectrometer Geometrics Exploranium HI/EZ 189
Portable minicomputer KS/MA 296
Portable polygraph Grass Instrument IL/PS 223
Portable Rad Gen MO/ZZ 482
Portable terminal Texas Instruments VA/EN 894
Portable: Computer-based laboratory for general statistics AL/MA 7
Position annihilation: Basic principles applied radiation physics NY/PH 599
Potable water supply: Environmental engineering technology laboratory for four-year city college CO/EN 118
Potentials bioelectrical intracellular extracellular ND/BZ 655
Potentiometer precision millivolt Leeds Northrup OK/EN 729
Potentiometric miniature recorder Simpson CA/EZ 51
Powder X-ray diffraction IL/EZ 236
Powder X-ray diffraction Phillips Norelco IL/EZ 236
Power amplifier B and K OH/EN 703
Power amplifier Hewlett Packard TX/EN 952
Power amplifier Pasco TX/PH 849
Power conditioning: Power electronics lab for electrical engineers MA/EN 398
Power electronics lab for electrical engineers MA/EN 398
Power laboratory steam technology engineering OK/EN 717
Power meter laser Spectra Physics WI/PH 931
Power meter radiometer Laser Precision Corp. RI/EN 791
Power module Tektronix OK/EN 721
Power supplies counter, timers, Pasco TX/PH 849
Power supplies Heath MA/BZ 386
Power supplies, interface cards logic processor Prolog Corp. OR/EN 732
Power supply Buchler ND/CH 654
Power supply DC Hewlett Packard NY/EN 628
Power supply disc gel electrophoresis LKB ID/CH 197
Power supply expander box American used computer MO/EN 488
Power supply for microprocessors, constructed in house AL/EN 4

Power supply Gelman VA/CH 898
Power supply Gelman electrophoresis system, Sepra Tek FL/BZ 151
Power Supply Health Schlumberger IL/PH 210
Power supply Heath Co. MI/BZ 419
Power supply Hewlett Packard CA/EN 88 MI/IN 423
Power supply John Fluke GA/PH 181
Power supply magnet Ealing OH/PH 691
Power supply microphone Bruel Kjaer AR/PH 40
Power supply solid state Coulbourn Instruments OH/PS 670
Power supply Tektronix OK/EN 721 VA/EN 909
Power supply voltage NIM bin Ortec Inc. VT/PH 887
Power system model computer control NC/EN 645
Power systems laboratory fluid MI/EN 401
Power systems laboratory Lab-Volt NC/EN 644
Power systems laboratory to simulate systems using miniaturized equipment NC/EN 644
Power transmission electric laboratory simulation TN/EN 822
Power transmission system electric Lab-Volt NC/EN 645
Power wave form monitor Mark 21HR LA/BZ 341
Practical considerations: Electromechanical energy conversion for the eighties NY/EN 591
Practical electronic technology laboratory for undergraduate college students MI/IN 423
Practical nursing licensed scientific equipment AK/BZ 20
Practice and drill on chemical problems: Improvement in general chemistry using computer assisted instruction CT/CH 129
Practice model nursing orifices insertions AK/BZ 20
Practicum: Behavior analysis and modification with severely disturbed children NY/PS 600
Preamplifier cryostat Canberra Ge(Li) detector GA/EN 179
Preamplifier Hewlett Packard TX/EN 852
Preamplifier microelectrode Grass IL/BZ 215
Preamplifier microphone Bruel Kjaer AR/PH 40
Preamplifier ORTEC NY/PH 599
Preamplifier scintillation ORTEC MN/PH 436
Preamplifiers Grass Instruments NM/BZ 540
Precalculus computer management test generation IA/MA 274
Precalculus: Computer assisted instruction in intermediate algebra for business students MA/MA 369
Precalculus: Talking pages to supplement large class instruction OK/MA 727
Precision Electric Inc. K-2 electric steamboiler OK/EN 729
Precision Scientific automatic tape sampler and chart recorder NJ/CH 515
Preconceptions: Cataloguing student conceptual models in introductory university physics MA/PH 390
Predator and prey: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Predental premedical histology embryology LA/BZ 341
Pregnancy models human Turtox MS/BZ 471
Premed students: Physics demonstrations for life science students MI/PH 416
Premedical course: Innovative undergraduate course in social psychology and health CA/ZZ 96
Premedical majors: High pressure liquid chromatography teaching tool for undergraduate chemistry IN/CH 263
Premedical predental histology embryology LA/BZ 341
Premedical studies: Experimental design for physiology concept reinforcement and skill acquisition CA/BZ 75
Premedical studies: Physical chemistry laboratory experiments for students in life sciences SD/CH 817
Premedical studies: Research and professional capabilities for cell biology, genetics, microbiology SC/BZ 800
Premedical study: Atomic absorption spectrophotometer for analytical chemistry and advanced projects IN/CH 240
Premedical study: Project type experiments emphasizing molecular biochemistry for pre-professional students ND/CH 654
Premedical training: Atomic absorption spectroscopy for analytical chemistry students TX/CH 838
Premedical: Aquisition of equipment for a course in immunology NJ/BZ 522
Premeds physics experiments matter NH/PH 508
Preparative centrifuge Sorvall Dupont VT/CH 884
Preparative methods: Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Press Carver OH/CH 702
Press hydraulic Leybold AR/IN 37
Pressure multiplexer Scanivalve TX/EN 873
Pressure transducer Narco Biosystems NE/BZ 495
Pressure transducer Statham WA/BZ 922
Pre-college teachers: Aquisition of equipment for a course in immunology NJ/BZ 522
Pre-college teachers: Basic chemical instrumentation with media assistance NY/CH 617
Pre-college teachers: Basic principles applied radiation physics NY/PH 599
Pre-college teachers: Biochemistry cell physiology laboratory for Graduates and Pre-professionals AR/IN 34
Pre-college teachers: Curriculum development in plant, animal, and microbial physiology SD/BZ 813
Pre-college teachers: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Pre-college teachers: Improvement of reading skills using science course materials AZ/CH 26
Pre-college teachers: Improvement of teaching in science, mathematics, and social sciences IL/IN 205
Pre-college teachers: Laboratory experiences in the exercise sciences AZ/BZ 32
Pre-college teachers: Mass spectrometer and NMR for undergraduate chemistry laboratories KY/CH 320
Pre-college teachers: Multiple instructional innovations in introductory economics IL/SZ 211
Pre-college teachers: Optics for pre-college science teachers and scientists NY/EN 627
Pre-college teachers: Piagetian-based physical sciences course for preservice teachers NE/IN 500
Pre-college teachers: Planetarium for instruction of physical science, teachers, and public AR/ZZ 41
Pre-college teachers: Portable minicomputer KS/MA 296
Pre-college teachers: Practical electronic technology laboratory for undergraduate college students MI/IN 423
Pre-college teachers: Principles of biomedical electronic instrumentation NY/PH 598
Pre-college teachers: Process approach to understanding human perceptual and motor behavior IA/PS 289
Pre-college teachers: Project-oriented organic laboratories NY/CH 615
Pre-college teachers: Science fiction films PA/PH 781
Pre-college teachers: Science laboratory project in support of community research needs CA/BZ 66
Pre-college teachers: Self paced minicourses in biology for the general student VA/BZ 896
Pre-college teachers: Small computer for students and faculty in several departments CA/IN 67
Pre-college teachers: Subdividing general biology into competency, essential knowledge, multiple-choice courses MO/BZ 473
Pre-college teachers: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Pre-college teachers: Undergraduate laboratory instruction in nutritional science NY/BZ 566
Pre-college teachers: Up-grading of undergraduate junior and senior physics laboratory KS/PH 298
Pre-dental: Immunohematology, serology, and immunology for college students NJ/ZZ 528
Pre-health professions physiology laboratories audiovisual demonstrations NE/BZ 495
Pre-health professions: Honors program in life science ethics NJ/IN 537
Pre-laboratory instruction: Interactive auto-tutorial audiovisual modules for complex instrument operation MA/CH 384
Pre-medical students medical electronic instrumentation TN/PH 820
Pre-medical students: Microbiological laboratory equipment for four-year college NJ/BZ 519
Pre-medical studies: New Optics Laboratory Course for Non-Physicists MA/PH 374
Pre-medical: Electrophysiological Experiments for Science Majors and Medical Paraprofessionals MA/BZ 368
Pre-medical: Immunohematology, serology, and immunology for college students NJ/ZZ 528
Pre-medical: One semester integrated chemistry laboratory for biologically oriented students MA/CH 380
Pre-nursing: Electrophysiological Experiments for Science Majors and Medical Paraprofessionals MA/BZ 368
Pre-veternarian: Immunohemstology, serology, and immunology for college students NJ/ZZ 528
Prima rear projector screens OH/BZ 690
Primary productivity: Marine science fluorometric determination of chlorophyll and water movement NY/ZZ 573
Primate studies: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Princeton Applied Physics lock in amplifier GA/PH 181
Princeton Applied Research boxcar integrator CW-1 IN/IN 259
Princeton Applied Research Co. electroanalyzers 364 PA/CH 782
Princeton applied research lock-in amplifier 5203 CA/PH 55
Princeton Applied Research polarograph 174A PA/CH 758
Princeton Applied Research 134A polarographic analyzer CO/CH 116
Principles of biomedical electronic instrumentation NY/PH 598
Printer calculators programmable Texas Instruments KS/SZ 311
Printer Centronics IN/EN 266
Printer counter digital Grayson Stadler NC/PS 636
Printer hard copy Tektronix Inc. OR/IN 748
Printer interface, Centronics FL/MA 171
Printer line Data Printer NY/CS 554
Printer line Houston Instrument IN/EN 252
Printer line IBM MD/MA 357
Printer line Printronix FL/PS 165
Printer line Wang KS/MA 296
Printer plotter electrostatic Tektronix TX/EN 851
Printer plotter electrostatic Varian Statos 42 OH/BZ 666
Printer plotter Printronix UT/PH 883
Printer programmable calculator Texas Instrument VT/CS 888
Printer programmable calculator Texas Instruments IA/MA 271
Printer screen Aremco PA/EN 761
Printer teletype K and E IL/EZ 220 IL/EZ 221

Printer terminal DECWriter IL/CH 227
Printer terminal Diablo Data Dimensions NY/BZ 562
Printer terminals DECWriter MA/MA 369
Printer Texas Instrument CA/EN 97
Printer 3M Sound Pages master recorder NE/MA 503
Printers Digital Equipment Corp. NY/MA 622
Printing counter high speed Coulbourn Instruments OH/PS 670
Printing terminal Teletype OR/PH 742
Printronix line printer FL/PS 165
Printronix printer plotter 300 UT/PH 883
Probability computing modules NH/MA 509
Probe accessory direct Varian TX/CH 863
Probe BOD oxygen Yellow Springs Instruments VA/IN 901
Probe system intracellular Mentor ND/BZ 655
Probe voltage Tektronix OK/EN 721
Probeholders micromanipulators Ealing NY/EN 575
Probes logic NJ/EN 517
Probes Tektronix radiometer photometer TN/PH 823
Problem solving physics computer TN/PH 832
Problem solving: Cataloguing student conceptual models in introductory university physics MA/PH 390
Problem solving: Computer modules for freshmen biology labs NY/BZ 558
Problem solving: Computer-based PLATO instruction in chemical engineering IL/EN 231
Problem solving: Development of a course in engineering creativity PA/EN 756
Problems mathematical modelling NC/MA 641
Problems mathematics regional industries OK/MA 713
Problem-solving labs for undergraduate personality, perception, and physiological psychology KY/PS 313
Process approach to understanding human perceptual and motor behavior IA/PS 289
Process control computer: Centralized data acquisition system for undergraduate chemical engineering laboratory CO/EN 121
Process control laboratory microcomputer system MS/EN 470
Process control simulator Feedback Inc. OH/EN 669
Process control: Computerized data acquisition for mechanical engineering undergraduates NY/EN 557
Process control: Improvements in a projects laboratory with a spray dryer UT/EN 880
Process design simulation computer-aided NY/EN 606
Process dynamics and control experiment development OH/EN 708
Process engineering: Computer-aided process design and simulation NY/EN 606
Process skills: Inquiry role approach for teaching physical science NE/PH 498
Process synthesis: Computer-aided process design and simulation NY/EN 606
Processor logic Prolog Corp. power supplies, interface cards OR/EN 732
Processor signal Fintronics OH/PS 688
Processor Technology microcomputer SOL WI/IN 946
Procurement of physiograph for human anatomy and physiology laboratories CO/BZ 107
Product failures engineer, analysis NY/EN 582
Product liability: Society and the engineer, and analysis of product failures NY/EN 582
Production engineering laboratories MO/ZZ 482
Professional courses junior senior options NY/EN 633
Professional immunologist: Immunohematology, serology, and immunology for college students NJ/ZZ 528
Proficiency modules statics dynamics labs IL/EN 228
Program library chemistry computer NJ/CH 533
Programmable calculator Hewlett Packard GA/EN 179
Programmable calculator Monroe NY/MA 621
Programmable calculator printer Texas Instruments IA/MA 271
Programmable calculator Tektronix KS/ZZ 302
Programmable calculator Texas Instrument VT/CS 888
Programmable calculator Texas Instruments NC/PS 640
Programmable calculators and printer Texas Instruments SR-58, SR-59, DC 100A KS/SZ 311
Programmable calculators computer programming VT/CS 888
Programmable calculators Hewlett Packard MT/MA 493
Programmable calculators plotter combinations IA/MA 287
Programmable calculators Texas Instruments MT/MA 493 NC/MA 641
Programmable data acquisition system for undergraduate aerospace engineering laboratories TX/EN 873
Programmed learning: Investigative laboratories in microbiology for non-science majors IL/BZ 230
Programmed logic sophomore laboratory AZ/EN 31
Programmer cell Coleman spectrophotometer ND/CH 654
Programmer personality module EPROM Future Data MO/EN 484
Programmer PROM Data I/O NH/CS 514
Programmer PROM E and L Instruments Inc. VT/EN 891
Programmer PROM PRO-LOG IN/EN 266
Programmers PROM Prolog Corp. OR/EN 732
Programming apparatus operant Coulbourn TX/PS 843
Programming computer organization microcomputers TX/CS 864
Programming computer programmable calculators VT/CS 888
Programming computer science students MI/IN 408
Programming equipment Gerbrands NC/PS 640
Programming lab experience upgrading computer facilities AL/CS 12
Programming language tranalations using microprocessor emulated microcoding NY/EN 584
Programming languages: Structured FORTRAN for the first course in computer science NY/CS 605
Programming system laboratory instrument Coulbourn TX/PS 879
Programming tools: Environment simulator for systems software development TN/CS 831
Programming: Computer augmented general physics for undergraduates OR/PH 742
Programming: Elementary chemical instrumentation for computer-interfaced data acquisition and processing CT/CH 141
Programming: Interactive timesharing computing environment for forest science instruction WI/ZZ 941
Programming: Microprocessor based interdisciplinary laboratory CO/EN 111
Programming: Time-shared microprocessor laboratory for electrical and computer engineering majors TX/EN 876
Programs computer tutorial physics KY/PH 314
Programs simulation minicomputer digital circuit design OK/CS 726
Project type experiments emphasizing molecular biochemistry for pre-professional students ND/CH 654
Projection enclosure peripheral Viewlex Inc. AR/ZZ 41
Projection LAP-dissolve lecture vitalization NY/CH 590
Projection system television Advent MI/MA 418
Projection tachistoscope Gerbrands Co. AR/PS 38
Projection, radiation, radioactivity science majors OH/IN 689
Projector analyzer stop action Lafayette Instrument Co. AZ/BZ 32
Projector Carousel computer terminal interface OH/PH 674
Projector Elmo PA/SZ 774
Projector film loop Aves MO/BZ 473
Projector film loop Technicolor IN/ZZ 251
Projector filmloop Technicolor SC/BZ 809
Projector Filmsound movie Bell Howell SC/BZ 796
Projector filmstrip Singer IA/MA 271
Projector macro Leitz MD/BZ 359
Projector micro Bausch Lomb IN/BZ 247
Projector micro Tri-Simplex Bausch Lomb NY/BZ 571
Projector movie camera Sankyo sound IN/ZZ 251
Projector overhead Cenco Tops AL/CH 8
Projector overhead 3M AL/EZ 1 AL/MA 6
Projector photoelectric slide reader Lafayette Instruments AR/PS 38
Projector physiograph Narco Biosystems NY/BZ 549
Projector physiograph Narco BioSystems PA/BZ 788
Projector planetarium Apollo dome Viewlex IA/ZZ 281
Projector rear screen slide Singer Caramate MA/BZ 381
Projector Ringmaster sound slide Bell Howell NY/PS 553
Projector screens rear Prima OH/BZ 690
Projector Singer Caramate slide sound IN/EN 257
Projector slide NY/PH 560
Projector slide Kodak IA/PS 289
Projector slide Kodak Ektagraphic SC/BZ 809
Projector slide Kodak random access LA/PS 339
Projector sound-on-slide 3M CO/CH 128
Projector tachisto polymetric IL/PS 223
Projector television General Electric IN/CS 245
Projector time motion Lafayette MO/ZZ 482
Projector timelapse CA/EN 83
Projector variable speed L-W International CT/PS 134
Projector Video-Beam Advent MI/CH 430
Projectors auxiliary Viewlex Inc. AR/ZZ 41
Projectors Kodak Carousel 750 AL/EZ 1
Projectors slide Kodak OH/BZ 690
Projectors 3M sound-on-slide MA/CH 384
Projector, slide Ektagraph Kodak AZ/BZ 30
Projects electronic Science Fair MA/IN 397
Project-oriented instruction in electronics and computer interfacing for chemists LA/CH 335
Project-oriented organic laboratories NY/CH 615
Prolog Corp. logic processor sets, power supplies, interface cards OR/EN 732
Prolog Corp. PROM programmers OR/EN 732
Prolog Corp. system analyzers OR/EN 732
PROM programmer Data I/O NH/CS 514
PROM programmer E and L Instruments Inc. VT/EN 891
PROM programmer PRO-LOG IN/EN 266
PROM programmers Prolog Corp. OR/EN 732
PROM writer for Intercolor terminals TX/PS 860
Prompt 50 Intel IN/EN 253
Proof: Restructuring the undergraduate learning environment HI/CH 188
Properties of materials courses CO/EN 113
Properties of materials: Demonstrations and interdisciplinary laboratories in engineering science WY/EN 953
Protected thermometer Wildco SC/IN 808
Protein analysis: Biochemistry laboratory emphasizing current research techniques CA/CH 56
Protein analysis: Super-speed centrifuge for molecular biology OK/BZ 711
Protein analyzer U.D. Corp. Udy DE/IN 146
Protein purification: Advanced techniques in genetics laboratory for biology majors MI/BZ 419
Protein synthesis: Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation KY/BZ 315

Protein synthesis: Slide-tape assisted self-paced biochemistry laboratory for undergraduate women MA/BZ 381
Proteins: Biochemical methods laboratory CA/IN 95
Protocol analysis: Cataloguing student conceptual models in introductory university physics MA/PH 390
Protomatic submersible photometer VA/IN 901
Proton magnetic resonance experiments in undergraduate chemistry curriculum SC/CH 801
Proton magnetometer Varian OH/EZ 693
Proton NMR spectrometer, Varian NY/CH 615
Proton precession magnetometers Unimag Geometrics HI/EZ 189
PRO-LOG series 92 PROM programmer IN/EN 266
PSI: Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
Psycho acoustics: Scientific equipment for speech and hearing science undergraduate instruction AZ/ZZ 23
Psychoacoustics laboratory MI/PS 414
Psychoacoustics: Human research laboratory for junior level psychology majors AR/PS 38
Psychobiology student research instruction CT/IN 131
Psychobiology: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Psychobiology: EEG, operant conditioning, and histofluorescence equipment for undergraduate psychology KY/PS 312
Psychobiology: Methods in neurobiology FL/IN 167
Psychobiology, laboratory equipment KY/PS 321
Psychological research methodological issues NY/PS 631
Psychology as a natural-science: lab courses for non-science majors OH/PS 671
Psychology biology computer aided laboratories TX/IN 862
TX/PS 860
Psychology computer information processing laboratory PA/PS 765
Psychology developmental laboratory course OH/PS 686
Psychology developmental video library MA/PS 388
Psychology equipment operant conditioning, histofluorescence KY/PS 312
Psychology experimental computer assisted MI/PS 402
Psychology human research laboratory AR/PS 38
Psychology introductory NY/PS 553
Psychology laboratories computing CT/PS 134
Psychology laboratory cognitive computer PA/PS 784
Psychology laboratory experimental computer controlled MS/PS 469
Psychology laboratory experimental undergraduate NC/PS 640
Psychology laboratory experiments human TN/PS 834
Psychology laboratory training program TX/PS 879
Psychology majors: New Optics Laboratory Course for Non-Physicists MA/PH 374
Psychology of perception: Perceptual laboratory for technical students NY/PS 588
Psychology physiological basic laboratory equipment TX/PS 843
Psychology physiological laboratory PA/PS 755
Psychology physiological teaching laboratory OK/PS 728
Psychology problem-solving labs personality, perception, physiological KY/PS 313
Psychology sensory laboratory measurement techniques MA/PS 383
Psychology social behavior belief MI/PS 410
Psychology social undergraduate course CA/ZZ 96
Psychology spanish instruction PR/PS 960
Psychology tachistoscope RI/PS 792
Psychology teaching perception laboratory apparatus IL/PS 223
Psychology: Behavior analysis and modification with severely disturbed children NY/PS 600
Psychology: Biofeedback laboratory for undergraduate independent research OH/PS 670
Psychology: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Psychology: Honors program in biopsychology NJ/IN 536
Psychology: Human biology for human services personnel NH/BZ 510
Psychology: Modular approach to methodological issues in psychological research NY/PS 631
Psychology: Multidisciplinary science study project center for two-year college OR/IN 748
Psychology: Multidisciplinary university introduction to children as a research topic CA/SZ 91
Psychology: Physiological and pharmacological laboratory additions to biopsychology core courses DC/PS 147
Psychology: Physiology laboratories and audiovisual demonstrations for pre-health professions NE/BZ 495
Psychology: Process approach to understanding human perceptual and motor behavior IA/PS 289
Psychology: Small computer for students and faculty in several departments CA/IN 67
Psychology: Solid state laboratory for aversive control of animal behavior PA/PS 760
Psychology: Student laboratory in psychoacoustics MI/PS 414
Psychology: Student research instruction in psychobiology CT/IN 131
Psychology: Undergraduate instruction/research in behavior observation and auditory information processing NC/PS 636
Psychology: Upgrading lab facilities for neuroscience instruction OH/PS 688
Psychology: Video monitoring and recording equipment for human research sequence AL/PS 17
Psychology: Video-taped observation exercises of infant behavior and development KS/PS 307
Psychology, physiological laboratory LA/PS 339
Psychopharmacology: Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Psychophysical psychophysiological equipment modular Coulbourn Instruments MI/PS 402
Psychophysics: A computer controlled experimental psychology laboratory for undergraduates MS/PS 469
Psychophysics: Modern measurement techniques for undergraduate sensory psychology laboratory MA/PS 383
Psychophysics: Perception laboratory apparatus for general undergraduate psychology teaching IL/PS 223
Psychophysiological psychophysical equipment modular Coulbourn Instruments MI/PS 402
Psychophysiology: Human research laboratory for junior level psychology majors AR/PS 38
Psychophysiology: Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Psychrometer Wescor thermocouple CT/BZ 138
Psycrotherm incubator shaker New Brunswick UT/BZ 882
Public planetarium instruction physical science, AR/ZZ 41
Public policy: Honors program in life science ethics NJ/IN 537
Public process science IL/ZZ 217
Public understanding chemicals food NY/CH 559
Puffer Hubbard Co. chromatography refrigerator MI/BZ 419
Puffer Hubbard Lab/FC-50 chromatography refrigerators MA/BZ 386
Puls height analyzer Tracor Northern KS/PH 298
Pulsars: Booklets of undergraduate physics course material from current research CA/PH 63
Pulse and wave shaping: Improvement of laboratory experiences in electronics and electromechanical technology OK/EN 721
Pulse circuits introduction SC/EN 803
Pulse counter Tektronix DC 503 FL/EN 168
Pulse height analyzer Tracor Northern MN/PH 436
Pulser receiver ultrasonic Panametrics OH/PH 678
Pump air hydraulics diaphragm NM/BZ 540
Pump air pollution LaMotte Chemical Co. NC/ZZ 651
Pump chromatography Haskell VA/CH 907
Pump high performance liquid chromatography Waters Associates MI/CH 412
Pump peristaltic LKB ID/CH 197
Pump Pharmacia NY/IN 580
Pump respiration Palmer IL/BZ 198
Pump turbine C.A.A. IA/EN 280
Pump vacuum Welch IA/ZZ 283
Pump, centrifugal circulating Celenese IL/EN 203
Punch paper tape NJ/EN 517
Punch reader paper tape Heathkit NC/EN 645
Purchase computing equipment for Wanakena campus NY/ZZ 611
Purchase of a computer terminal system WA/SZ 923
Purchase of computer terminals for instructional purposes VA/CS 912
Purchase of instruments for teaching electronics in physics laboratory CA/PH 77
Purchase of scintillation counter MN/BZ 438
Pyranometer sensor, NM/BZ 540
Pyrolyzer Perkin Elmer Co. CT/ZZ 139
Qualitative analysis social sciences video techniques IL/SZ 200
Qualitative analysis: Proton magnetic resonance experiments in undergraduate chemistry curriculum SC/CH 801
Qualitative analysis: Spectroscopic laboratory in introductory mineralogy AZ/EZ 22
Qualitative analysis: Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Qualitative organic analysis: Nuclear magnetic resonance spectroscopy in the undergraduate chemistry curriculum OH/CH 705
Qualitative organic chemistry: Atomic absorption and mass spectrometry in analytical organic chemistry NY/CH 630
Quality control computer simulated sampling game OK/EN 715
Quantitative analysis atomic absorption spectrophotometry NY/CH 568
Quantitative analysis: Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Quantitative and qualitative: Data analysis exercises in anthropology MN/SZ 447
Quantitative instrumental analysis research MS/CH 465
Quantitative manipulation of data: Computer modules for freshmen biology labs NY/BZ 558
Quantitative methods computer satellite imagery NY/EZ 614
Quantitative notions biology instruction OH/BZ 666
Quantitative techniques biological problems NY/BZ 632
Quantom light meter Lambda LI-170 CT/BZ 138
Quantum Lambda sensor, NM/BZ 540
Quantum mechanics PA/PH 762
Quantum mechanics physics MO/PH 476
Quantum mechanics: Theoretical physical chemistry laboratory CA/CH 94
Quantum theory: Simulation experiments for physics foundations course VT/PH 885
Quartz halogen lamps for uv operation of Turner spectrophotometer CA/CH 56
Quest Electronics sound level meter 215 AR/IN 37

Quest study carrel CG-55 SC/BZ 809
Queues: Modules in probability with computing NH/MA 509
Quickscan motorized densitometer 1020 MO/BZ 472
RAC high volume sampler IN/EN 267
RAC 3 gas sampler IN/EN 267
Rad sound level and Gen MO/ZZ 482
Radar Raytheon SC/IN 808
Radiation biology: Interdepartmental radiation laboratory NJ/IN 534
Radiation biology: Radioisotope usage for interdisciplinary sciences MD/IN 360
Radiation chemistry: Radioisotope usage for interdisciplinary sciences MD/IN 360
Radiation detection equipment physics IN/PH 241
Radiation detection: Interdepartmental radiation laboratory NJ/IN 534
Radiation detection: Studies on radiation, projection, and radioactivity for science majors OH/IN 689
Radiation heat transfer system Scott Engineering NY/EN 603
Radiation laboratory NJ/IN 534
Radiation physics basic principles NY/PH 599
Radiation physics: Interdepartmental radiation laboratory NJ/IN 534
Radiation physics: Radioisotope usage for interdisciplinary sciences MD/IN 360
Radiation protection: Undergraduate health physics degree program MO/PH 479
Radiation, projection, radioactivity science majors OH/IN 689
Radio Shack home computer TRS-80 MA/IN 397
Radio tracer: Purchase of scintillation counter MN/BZ 438
Radioactive experiment Nucleus The TX/PH 846
Radioactivity radiation, projection, science majors OH/IN 689
Radioactivity: Experiments for freshman and sophomore physics labs TX/PH 846
Radiochemistry: Interdepartmental radiation laboratory NJ/IN 534
Radiochemistry: Liquid scintillation counting experiments for chemistry and biology majors MN/CH 445
Radiograph standards ASTM IN/EN 268
Radiographic materials testing IN/EN 268
Radioimmunoassay gamma counter NC/ZZ 643
Radioisotope methods: Interdepartmental radiation laboratory NJ/IN 534
Radioisotope scaler decade Sargent Welch SD/BZ 813
Radioisotope usage for interdisciplinary sciences MD/IN 360
Radioisotopes metallic studies biochemistry laboratory TX/ZZ 853
Radiologic technology students: Human body physics laboratory for health sciences students IL/PH 201
Radiological technologists: Mathematics for students in the allied health technologies VA/MA 910
Radiometer chloride titrator NM/BZ 540
Radiometer photometer Li-Cor underwater quantum sensor CA/BZ 82
Radiometer photometer probes Tektronix TN/PH 823
Radiometer power meter Laser Precision Corp. RI/EN 791
Rainguage recording Bendix WA/ZZ 921
Rainin P20 Digital Pipetman pipet MD/IN 360
Rainin P200 Digital Pipetman pipet MD/IN 360
Ralph Gerbrands electromechanical control apparatus LA/PS 339
RAM Cromemco NV/CS 504
RAM MITS PA/CH 787
RAM module dynamic Motorola Semiconductor Products MN/CS 451
RAM 8K by 8, telephone and cable connections OH/CH 673
Rand Instrument Corp. 14 inch telescope GA/PH 186
Random noise generator Bruel and Kjaer ME/EN 351
Random walks: Modules in probability with computing NH/MA 509
Ratio and proportion: Equipment enhancement of general and organic chemistry courses AL/CH 8
Ratiometer Ithaco IN/IN 259
Rational argument: Development of a course in engineering creativity PA/EN 756
Rayner Dialdex refractometer TX/CH 840
Raytheon radar 2700 SC/IN 808
RCA color video monitor and receiver JA970W NJ/EN 531
RCA Corp. video camera OH/BZ 690
RCA TV monitor JA97W TN/CH 833
RCA XL-100 19in. color TV sets CO/EN 113
Reaction Frames, custom built, for a compression tester PA/EN 775
Reaction kinetics: Computer-based PLATO instruction in chemical engineering IL/EN 231
Reaction time apparatus, Lafayette MS/BZ 471
Reaction time multiple choice Lafayette Instrument IL/PS 223
Reaction time: A computer controlled experimental psychology laboratory for undergraduates MS/PS 469
Reactor chemical bench Engineering Laboratory Design Inc. OK/EN 729
Reactor equipment analytical instrumentation ID/EN 196
Reactor experiments 801 Digi Master IN/PH 241
Reactor spinning basket Berty Carberry ID/EN 196
Reactor: Improvement of analytical instrumentation and reactor equipment ID/EN 196
Read only memory: Digital systems and microcomputer laboratory CO/EN 125
Reader card optical scan Hewlett Packard KS/ZZ 299
Reader card Wang OK/SZ 723
Reader punch paper tape Heathkit NC/EN 645
Reader TLR-5 TLD Eberline Instrument Co. MO/PH 479
Reading and comprehension time experiments: Real-time computing in cognitive and physiological psychology laboratories CT/PS 134
Reading skills improvement science course materials AZ/CH 26
Reading Spectrex CT/ZZ 139
Reading: Tachistoscope for undergraduate experimental psychology RI/PS 792
Real time analog data acquisition package DEC MA/CS 393
Real time analog I/O interface MA/PS 383
Real time clock asynchronous line EIA NJ/CS 532
Real time clock line frequency DEC NJ/CS 532
Real time computer aided laboratories in psychology and biology TX/IN 862 TX/PS 860
Real time computer: Centralized data acquisition system for undergraduate chemical engineering laboratory CO/EN 121
Real time control: Microprocessor laboratory paralleling a computer lecture course VA/CS 913
Real time programming: Minicomputer and microcomputer laboratory for hardware and software instruction MA/CS 393
Real time spectrum analyzer Rockland AR/PH 40
Real time spectrum analyzers teaching acoustics speech AR/PH 40
Real time: Computer managed laboratories for four cognitive physchology courses FL/PS 165
Realistic CTR-29 cassette recorders AL/EZ 1
Realtime clock interface boards State Systems Inc. MS/PS 469
Real-time analog subsystem Digital Equipment NY/EN 557
Real-time computing in cognitive and physiological psychology laboratories CT/PS 134
Real-time experimentation: Computer based cognitive psychology laboratory PA/PS 784
Rear projector screens Prima OH/BZ 690
Rear screen mm slide Bell Howell MS/BZ 471
Receiver monitor color Sony IL/SZ 200
Receiver monitor Unimedia color Sony ND/BZ 652
Receiver monitor video RCA NJ/EN 531
Receiver ultrasonic pulser Panametrics OH/PH 678
Reclamation: Development of a course on recycling of materials OH/EN 668
Recorder AL/CH 5
Recorder audio cassette Superscope VT/EN 891
Recorder Betamax Sony IL/SZ 200
Recorder blood pressure Pasco PA/PH 785
Recorder cartridge tape Tektronix MN/EN 45[illegible]
Recorder cassette data physiotape Narco Biosystems NE/BZ 495
Recorder cassette editing Panasonic MI/CH 430
Recorder cassette Panasonic IL/BZ 235 MI/CH 430
Recorder cassette tape digital TX/CS 864
Recorder chart Cyborg LA/PS 339
Recorder chart tape sampler Precision Scientific NJ/CH 515
Recorder color video cassette Sony OK/EN 714
Recorder cumulative Gerbrands TN/PS 834
Recorder data digital NJ/EN 517
Recorder digital cassette Bison OH/EZ 680
Recorder dual channel Gould Brush ND/BZ 655
Recorder Electronik Honeywell NE/BZ 499
Recorder event Esterline Angus Co. MD/BZ 365
Recorder fiber optic electromyograph Teca MA/ZZ 370
Recorder flow cell, uv monitor, Isco AL/IN 16
Recorder fluorometer Turner NY/ZZ 573
Recorder for Perkin Elmer visible ultraviolet spectrophotomer 550 TN/CH 821
Recorder Hewlett Packard KS/PH 298
Recorder intergrator Beckman MN/BZ 446
Recorder linear log anodic stripping electrocell McKee Pederson MN/CH 441
Recorder MFE X-Y time base generator AR/PH 40
Recorder miniature potentiometric Simpson CA/EZ 51
Recorder Omniscribe Houston instruments MA/CH 373
Recorder oscillographic Hewlett Packard KY/EN 322
Recorder Perkin Elmer FL/ZZ 161
Recorder photometer chemiluminescence Aminco Chem-Glow AL/IN 16
Recorder physiotape cassette data Narco BioSystems PA/BZ 788
Recorder player portable color MA/PS 388
Recorder player 3M Sound Page IL/EN 228
Recorder player, video cassette Panasonic MA/PS 388
Recorder polygraph Gilson WA/BZ 922
Recorder portable cassette Sony IN/EN 257
Recorder portable color Sony IL/SZ 200
Recorder salinity temperature depth Martek TX/EZ 845
Recorder signal analog Heathkit MA/PS 383
Recorder slide cassette Bell and Howell LA/PS 339
Recorder spectrophotometer Beckman MI/EZ 415
Recorder strip chart gilford MA/BZ 381
Recorder strip chart Gould Brush CA/EN 57
Recorder strip chart Heath NM/BZ 540
Recorder strip chart Heath Schlumberger IL/PS 223
Recorder strip chart Hewlett Packard CO/EN 126 NY/EN 603 OH/PS 688
Recorder strip chart Honeywell Inc. OK/EN 729

Recorder strip chart Houston PA/CH 749
Recorder strip chart Pasco TN/PH 820
Recorder strip chart Tekmar OH/BZ 696
Recorder strip chart Varian OR/CH 745 TX/CH 863
Recorder strip-chart Heath NJ/PH 518
Recorder system TI LPM multipoint KS/EN 300
Recorder tape LA/BZ 341
Recorder tape Akai MA/PS 383
Recorder tape Hewlett Packard instrumentation IL/BZ 215
Recorder tape Sony IA/PS 289
Recorder tape speech compressor Variable Speech Control Co. IN/ZZ 251
Recorder tape TEAC WI/PH 944
Recorder tape Wollensak IN/ZZ 251
Recorder video cassette editing unit, Panasonic MA/PS 388
Recorder video cassette Panasonic OH/BZ 700
Recorder video tape Betamax Sony Corp. MO/PH 478
Recorder videotape JVC ND/BZ 652
Recorder videotape Panasonic MA/ZZ 391
Recorder x-y Hewlett Packard OR/CH 745
Recorder x-y Houston PA/CH 758
Recorder 3M Sound Pages audio printer NE/MA 503
Recorders cassette Realistic CTR-29 AL/EZ 1
Recorders chart Houston Omniscribe VWR Scientific, IA/BZ 277
Recorders chart medical instruments Gould Inc. IL/EN 234
Recorders cumulative Gerbrands MS/PS 469
Recorders portable cassette FL/IN 159
Recorders Sargent Welch Co. WY/BZ 954
Recorders strip chart Leeds Northrup NM/EN 541
Recorder, Hitachi Perkin Elmer AL/CH 10
Recorder, tape Tandberg AR/PH 40
Recorder, video cassette Panasonic NC/PS 636
Recordex Superpro 30 cassette duplicator TX/IN 841
Recording adaptor FM Vetter Co. ND/BZ 652
Recording channel Gilson WA/BZ 922
Recording channels Narco physiograph FL/BZ 151
Recording equipment physiograph Narco Biosystems TX/BZ 855
Recording equipment video monitoring human research AL/PS 17
Recording oscilloscope Tektronix NY/EN 603
Recording polarograph Sargent Welch PA/CH 786
Recording rainguage Bendix WA/ZZ 921
Recording spectrometer Perkin Elmer NJ/CH 526
Recording spectrophotometer Gilford model 250 uv-vis AL/BZ 3
Recording spectrophotometer Perkin Elmer ND/CH 654 PA/ZZ 766
Recording tapes video cassette OH/MA 694
Recording tapes video reel-to-reel OH/MA 694
Recreation travel wilderness computer modeling ID/ZZ 195
Rectifiers silicon General Electric MA/EN 398
Recycling materials course development OH/EN 668
Reel-to-reel video recording tapes OH/MA 694
Reference materials AK/BZ 20
Refractometer Bausch Lomb IL/CH 202
Refractometer Dialdex Rayner TX/CH 840
Refractometer differential Waters Associates MN/CH 450
Refractometer, Abbe Fisher Scientific Co. CT/ZZ 139
Refrigerated centrifuge Beckman ID/IN 192 IN/BZ 243 MA/BZ 386 MI/BZ 415 OK/BZ 711
Refrigerated centrifuge biochemical laboratory ID/IN 192
Refrigerated centrifuge DuPont Sorvall RC-5B AL/BZ 3
Refrigerated centrifuge Fisher KS/EN 300
Refrigerated centrifuge IEC AR/IN 34 IN/ZZ 255 MO/IN 480 NJ/BZ 519 OR/BZ 731 PA/BZ 789 VA/BZ 905
Refrigerated centrifuge Sorvall ID/CH 197
Refrigerated centrifuge superspeed Sorvall KS/CH 297
Refrigerated 75 gal. aquariums MD/BZ 359
Refrigerator chromatography Kelvinator MN/CH 456
Refrigerator chromatography Puffer Hubbard Co. MI/BZ 419
Refrigerators chromatography Puffer Hubbard MA/BZ 386
Regional emphasis: Introduction to environmental concepts for engineers IN/EN 257
Regional industries mathematics problems OK/MA 713
Regional science: Locational analysis in undergraduate geography and urban planning IA/SZ 291
Registered technologist: Immunohematology, serology, and immunology for college students NJ/ZZ 528
Reinforcement: Development of interdisciplinary social science research skills AL/IN 13
Relativity theory: Simulation experiments for physics foundations course VT/PH 885
Relay test set Multi-AMP TN/EN 822
Relay testing and maintenance: Laboratory simulation of electric power transmission systems TN/EN 822
Religion: Application of social psychology to behavior and belief MI/PS 410
Remedial mathematics: Computer assisted instruction modules in elementary algebra TN/MA 829
Remedial, tutorial, augmented self paced audiovisual instruction in mathematics AL/MA 9
Remediation of fundamental mathematics: Improvement in general chemistry using computer assisted instruction CT/CH 129
Remote batch entry station IBM 3780 KS/SZ 311
Remote control digital Sony SLO-320 tape recorder AL/PS 17
Remote sensing for forestry students IL/EZ 220
Remote sensing multidisciplinary natural sciences IL/EZ 221
Remote sensing: Environment oriented aerial photo interpretation laboratory for science majors IL/SZ 237
Remote sensing: Land surveying measurements and computations laboratory LA/EN 338
Remote sensing: Student interpretation of landsat imagery NC/EZ 649
Removable plastic organs anatomical model AK/BZ 20
Report writing: Mathematics problems from regional industries for undergraduate majors OK/MA 713
Reporting integrator Hewlett Packard ID/EN 196
Reporting science NY/IN 602
Reproduction of humans: Optional activities for undergraduate animal biology students OK/BZ 719
Reproductive effort and strategies: Experimental ecology laboratory for life sciences undergraduates NE/BZ 499
Research and professional capabilities for cell biology, genetics, microbiology SC/BZ 800
Research Device Inc. ir microscope model J CT/ZZ 139
Research equipment in autotutorial science teaching in undergraduate physiology IL/BZ 215
Research human video monitoring recording equipment AL/PS 17
Research laboratory analytical chemistry, biochemistry, PA/CH 758
Research laboratory endocrine glands SD/BZ 818
Research laboratory environmental NY/CH 577
Research laboratory human psychology AR/PS 38
Research oriented: Honors program in biopsychology NJ/IN 536
Research PLATO modules political science MN/SZ 444
Research quantitative instrumental analysis MS/CH 465
Research skills interdisciplinary social science AL/IN 13
Research sociology computer assisted TN/SZ 828
Research student guide animal behavior PA/IN 753
Research techniques: Simultaneous recording of three physiological parameters in vertebrates NY/BZ 576
Resistance indicator electrolytic Leeds Northrup OK/EN 729
Resistance meter diffusive Lambda SD/BZ 813
Resistance meter Lambda Instrument NM/BZ 540
Resistivity meter earth Bison HI/EZ 189
Resistivity versus temperature in semiconductor: Semiconductor material and device project laboratory stressing data validation NY/EN 628
Resonator mirrors Oriel WI/PH 931
Resource center and laboratory experience program development IN/ZZ 251
Resource management: Environment oriented aerial photo interpretation laboratory for science majors IL/SZ 237
Resource management: Environmental studies program field equipment project NC/ZZ 651
Resource management: Interactive timesharing computing environment for forest science instruction WI/ZZ 941
Resource sharing: Integrated mini-micro learning center NE/CS 502
Respiration apparatus Sargent Warburg SC/BZ 800
Respiration pump Palmer IL/BZ 198
Respiration rate: Simultaneous recording of three physiological parameters in vertebrates NY/BZ 576
Respiration: Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Respiration: Comparative animal physiology laboratory OH/BZ 696
Respiration: Human anatomy and physiology laboratory for nursing students MS/BZ 471
Respiratory therapy: Human anatomy and introductory biology for two-year allied health LA/BZ 333
Respirometer differential Gilson AR/IN 34 ME/BZ 348
Respirometer Gilson [illegible]A/BZ 82 MI/BZ 415 MN/BZ 446
Respirometer Scholander Mark Co. NY/BZ 563
Respirometer student Gibson SD/BZ 813
Response box controller ICR Systems TN/PS 834
Restructuring the general chemistry course for engineers OK/CH 716
Restructuring the undergraduate learning environment HI/CH 188
Restructuring undergraduate laboratory teaching in biology SC/BZ 802
Retort sealer Dixie KS/EN 300
Retrieval systems bibliographic structure determination IL/IN 204
Retrosynthetic analysis: Computer assisted teaching of organic synthesis MA/CH 389
Reuse: Development of a course on recycling of materials OH/EN 668
Revco ULT-1145 freezer NJ/BZ 519
Revco ULT-775B freezer LA/BZ 337
Reversing thermometer Wildco SC/IN 808
Revision of instruction and instrumentation in geophysics CA/EZ 51
Reynolds apparatus Scott Armfield WY/EN 953
Rf signal generator Logimetrics NJ/PH 518
Rheological properties: Food engineering technology laboratory for four year program KS/EN 300
Ringmaster sound slide projector Bell Howell NY/PS 553
RLC impedance bridge Digi-Bridge General Radio HI/EZ 189
RMS meter true MA/EN 398
Rockets: Introductory physics with an engineering ambience for non-science majors NY/PH 560
Rockland real time spectrum analyzer model FFT 512/S AR/PH 40

Rockwell belt finishing machine 31-520 SC/EN 807
Rod frame 12011 Stoelting Co. NY/PS 588
Rodent shuttle boxes BRS/LVE PA/PS 760
Roller culture apparatus LabLine OK/BZ 718
Roller mill W-W KS/EN 300
Roots air blower Peeco, Inc. RI/BZ 794
Rotational viscometer Ferranti NY/EN 603
Rotor Beckman CA/IN 95
Rotor centrifuge Sorvall ID/CH 197
Rotor centrifuge sucrose gradient IEC AL/IN 16
Rotor fixed angle Beckman ID/IN 192
Rotor swinging bucket centrifuge Beckman IN/BZ 243
Rotor vertical DuPont SV-80 RC-5B Sorvall centrifuge AL/BZ 3
Ryan waterproof temperature chart recorder model J-90 CA/BZ 82
S and M School Instrument Div. supersensitive photometer 102 WI/PH 939
Saertner holographic system R430 UT/PH 881
Saertner optical ellipsometer L117 UT/PH 881
Safety analyzer Neuro Dyne CA/EN 57
Safety engineering laboratories MO/ZZ 482
Safety hood Biohazard laminar flow NJ/ZZ 528
Safety mining operations laboratory mining engineering curriculum AZ/EN 29
SAI Technology Co. ATP photometer 3000 DE/IN 146
Salinity meter Yellow Springs CA/BZ 68
Salinity temperature depth recorder Martek TX/EZ 845
Salinometer YSI FL/BZ 158
Salmonid culture: Instructional scientific equipment program RI/BZ 794
Salvage: Development of a course on recycling of materials OH/EN 668
SAL/D compiler Texas Instruments TX/IN 862
Samdri critical point drying apparatus PVT-3 OH/BZ 699
Sample applicator Gelman VA/CH 898
Sample utilization: Improvement of undergraduate studies in petrography NY/EZ 569
Sampler automatic Circo IA/ZZ 283
Sampler core Wildco Co. KB NY/BZ 607
Sampler gas RAC IN/EN 267
Sampler high volume RAC IN/EN 267
Sampler plankton Wildlife Supply Co. Clark Bompus NY/BZ 563
Sampler tape chart recorder Precision Scientific NJ/CH 515
Sampling adapter gas Varian TX/CH 863
Sampling adaptor gas KY/CH 316
Sampling bottle nonmetallic Classmate Kemmerer FL/BZ 158
Sampling game computer quality control OK/EN 715
Sampling machine soil coring Giddings IN/ZZ 251
Sampling monitoring environmental air pollutants IN/EN 267
Sampling Otter trawl Sterling FL/BZ 158
Sankyo Super 8 sound movie camera and projector IN/ZZ 251
Sanyo video recorder player with camera VTC 8400 CA/BZ 82
Sargent Warburg respiration apparatus S-7490 SC/BZ 800
Sargent Welch autoclave MS/IN 461
Sargent Welch Co. Bausch and Lomb spectrophotometers WY/BZ 954
Sargent Welch Co. pH meters WY/BZ 954
Sargent Welch Co. recorders WY/BZ 954
Sargent Welch decade radioisotope scaler SD/BZ 813
Sargent Welch ecology study system 8380 NC/ZZ 651
Sargent Welch gel electrophoresis apparatus OK/CH 710
Sargent Welch paper electrophoresis apparatus 5023 MI/BZ 424
Sargent Welch XVI recording polarograph PA/CH 786
Sartorios balance type 3716 and keyboard: Interdisciplinary approach to science education NY/IN 596
Sartorius analytical balance SR2462 IA/BZ 276
Sartorius balance 1106 AZ/BZ 21
Sartorius top loading balance 2355 OR/BZ 731
Sartorius top loading balances 1106 TX/CH 844
Satellite imagery computer quantitative methods NY/EZ 614
Satellite imagery: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Satellite imagery: Optical equipment for transfer of map data MA/EZ 367
Satellite imagery: Remote sensing for forestry students IL/EZ 220
Satellite orbits: Development of modules on current mathematical applications MD/MA 358
Sauter single pan balance TX/CH 840
Saw slab Hillquist MA/EZ 382
SCA Ortec NIM modules IN/PH 241
Scaler decade radioisotope Sargent Welch SD/BZ 813
Scaler Nucleus Inc. MD/IN 360
Scan drive step motor Jarrel Ash monochromator KS/PH 298
Scanner gel Gilford 2520 model 250 spectrophotometer AL/BZ 3
Scanning czerney turner monochromator McKee Pedersen PA/CH 749
Scanning electron microscope Advanced Metals Research MI/BZ 404
Scanning electron microscope for multi-discipline undergraduate laboratory classes MT/EN 489
Scanning electron microscope ISI MT/EN 489 OH/BZ 699
Scanning electron microscope MSM-5, International Scientific Instruments Inc. CA/BZ 60
Scanning electron microscopy and associated equipment for biologists MI/BZ 404
Scanning electron microscopy for undergraduate plant morphology instruction CA/BZ 60
Scanning electron microscopy for undergraduate training OH/BZ 699
Scanning spectrophotometer Perkin Elmer Corp. TN/EN 825
Scannivalve pressure multiplexer 48J4 TX/EN 873
Schlieren system K and E NY/EN 603
Schlieren system: Modern optics and laser physics laboratory for four-year college WI/PH 931
Schmitt Cassegrain telescopes Celestron International portable GA/PH 177
Schoeffel grating monochromator NM/EN 541
Scholander respirometer Mark Co. NY/BZ 563
Schottky diode fabrication, lab experiments NY/EN 575
Science and society: Development of undergraduate history of science course and laboratory MN/IN 452
Science and the public process IL/ZZ 217
Science biological elementary teacher AZ/BZ 24
Science biosocial program Coe College IA/IN 272
Science communication: Training undergraduate science majors in science reporting NY/IN 602
Science course materials improvement reading skills AZ/CH 26
Science course minimally motivated students MA/IN 397
Science course physical design projects WV/IN 927
Science education interdisciplinary approach NY/IN 596
Science Fair electronic projects 28-248 MA/IN 397
Science fiction films PA/PH 781
Science fundamental curriculum MI/IN 405
Science hearing laboratory Starkey AZ/ZZ 23
Science laboratory experiments computer control MD/IN 361
Science laboratory history MN/IN 452
Science laboratory module integrated TX/IN 839
Science laboratory project in support of community research needs CA/BZ 66
Science majors chemistry laboratory Piaget LA/CH 346
Science Majors Electrophysiological Experiments MA/BZ 368
Science majors mass spectroscopy VA/CH 893
Science majors Piagetian chemistry laboratory MS/CH 462
Science majors radiation, projection, radioactivity OH/IN 689
Science majors: Application of television in introductory college microbiology OH/BZ 700
Science majors: Audiovisual materials and data assessment for college chemistry laboratory MN/CH 442
Science majors: Development of laboratory alternatives in introductory biology GA/BZ 184
Science majors: Laser applications and modern optics RI/EN 791
Science majors: Microprocessors and microcomputers in undergraduate education UT/PH 883
Science mathematics instruction TX/IN 841
Science nutritional instructional strategy TX/BZ 857
Science philosophy laboratory IL/ZZ 206
Science physical inquiry role NE/PH 498
Science program college NJ/IN 529
Science reporting NY/IN 602
Science reporting: Training undergraduate science majors in science reporting NY/IN 602
Science speech hearing scientific equipment AZ/ZZ 23
Science students computer programming MI/IN 408
Science students field studies program NC/BZ 642
Science students life physics MI/PH 416
Science study center multidisciplinary OR/IN 748
Science teachers optics NY/EN 627
Science teaching audio tutorial, self instructional systems soil plant AL/EZ 1
Science techniques contemporary MS/IN 461
Sciences exercise laboratory experiences AZ/BZ 32
Sciences field field ID/IN 190
Sciences for health majors: Experimental design for physiology concept reinforcement and skill acquisition CA/BZ 75
Science, physical planetarium for AR/ZZ 41
Science, teaching improvement IL/IN 205
Scientific creativity: Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
Scientific equipment for foods and nutrition laboratory instruction CA/ZZ 59
Scientific equipment for licensed practical nursing program AK/BZ 20
Scientific equipment for speech and hearing science undergraduate instruction AZ/ZZ 23
Scientific exploration equipment for undergraduate geophysics instruction HI/EZ 189
Scientific instrumentation: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Scientific instrumentation: Texts and labs for minicourses in electronics for scientists IA/PH 284
Scientific method: Investigative laboratories in microbiology for non-science majors IL/BZ 230
Scientific Products Inc. total solids meter B5996 VA/CH 898
Scientific Products microbiological transfer hood AZ/BZ 21
Scientific Prototype standard 3-channel tachistoscope N-1000-S AR/PS 38
Scientific Prototype two-channel tachistoscope N-900 LA/PS 339
Scientific Prototype voice key NC/PS 636
Scientific Prototype 2-channel tachistoscope 800-F RI/PS 792

Scientific writing: Independent field marine laboratory for two-year college students FL/BZ 158
Scintillation counter Beckman Instruments MN/CH 445
Scintillation counter liquid allied equipment IA/BZ 276
Scintillation counter liquid Beckman IA/BZ 276 MA/BZ 381 MA/BZ 399 MD/IN 360 MO/IN 480 NY/BZ 549
Scintillation counter liquid Searle NJ/IN 534
Scintillation counter purchase MN/BZ 438
Scintillation counter Searle SD/BZ 818
Scintillation counting experiments chemistry biology MN/CH 445
Scintillation detector Bicron IN/PH 241
Scintillation preamplifier ORTEC MN/PH 436
Scintillation spectrometer liquid Beckman TX/ZZ 853
Scintillation spectrometry Nucleus Inc. NY/PH 599
Scintrex Ltd. gravity meter CG-2G OH/EZ 706
Scope memory Narco trace MN/IN 434
Scope Tektronix VA/EN 909
Scope zoom transfer Bausch and Lomb MA/EZ 367
Scope zoom transfer Bausch Lomb IL/EZ 220 IL/EZ 221 IL/SZ 237
Scotch data cartridge DC 300A OH/SZ 676
Scotsman ice maker SE 75 WSJ TX/CH 844
Scott Armfield air distribution system 9007-1 IA/EN 280
Scott Armfield flow visualization table 9045 WY/EN 953
Scott Armfield fluid circuit system 9009 IA/EN 280
Scott Armfield hydraulic bench F1-10 WY/EN 953
Scott Armfield hydrostatics system 9092 IA/EN 280
Scott Armfield Reynolds apparatus F-5 WY/EN 953
Scott Engineering double pipe heat exchanger 9052B NY/EN 603
Scott Engineering radiation heat transfer system 9053 NY/EN 603
Scramblers shocker Coulbourn PA/PS 760
Screen dome hemispherical Highland Products Corp. AR/ZZ 41
Screen Kodak slide projector IA/PS 289
Screen printer Aremco PA/EN 761
Screens rear projector Prima OH/BZ 690
Sealer retort Dixie KS/EN 300
Searle Delta 300 liquid scintillation counter NJ/IN 534
Searle well-type gamma scintillation counter SD/BZ 818
Secondary analysis: Computer based approach to teaching introductory sociology OH/SZ 685
Sediment settling tube, custom built TX/EZ 845
Sedimentology suite approach teaching ND/EZ 659
Seed germinator Burrows MN/BZ 459
Seismic cable C and M Seismograph Equipment Co. MI/EZ 432
Seismic equipment for introductory exploration geophysics MI/EZ 432
Seismic instrument Bison OH/EZ 693
Seismic system geophysical education OH/EZ 680
Seismograph engineering Nimbus Instruments MI/EZ 432
Seismograph signal enhancement Bison HI/EZ 189 OH/EZ 680
Self instructional audio tutorial, systems soil plant science teaching AL/EZ 1
Self paced interactive computer graphics instruction in structural engineering VA/EN 894
Self paced minicourses in biology for the general student VA/BZ 896
Self paced remedial, tutorial, augmented audiovisual instruction mathematics AL/MA 9
Self paced video and computer assisted instruction in ethnography CA/SZ 93
Self-instructional tapes AK/BZ 20
Self-instructional units: Integrated general chemistry for independent study through audiovisual modules OH/CH 661
Self-paced course sequences in moden physics and quantum mechanics MO/PH 476
Self-paced genetics, ecology, and systematics modules for general zoology IL/BZ 222
Self-paced introductory environmental engineering IL/EN 232
Self-paced junior/senior level quantum mechanics and statistical mechanics PA/PH 762
Self-paced materials for a competency-based fundamental science curriculum MI/IN 405
Self-paced modules for anatomy and physiology courses IN/BZ 247
Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
Self-paced proficiency modules for teaching statics and dynamics labs IL/EN 228
Self-paced: Activity based format for anatomy and physiology laboratory LA/BZ 331
Self-paced: Adaptive evaluation structure for computer based instruction IA/SZ 292
Self-paced: An audiovisual improvement in chemical laboratory instruction NJ/CH 516
Self-paced: Audio tutorial anatomy and physiology laboratory for health sciences TX/BZ 837
Self-paced: Audio tutorial, self instructional systems soil plant science teaching AL/EZ 1
Self-paced: Audio visual color television programs in optical mineralogy NY/EZ 551
Self-paced: Audio-tutorial minicourses for college algebra and trigonometry IN/MA 249
Self-paced: Basic fluid mechanics laboratory for engineering students IL/EN 203
Self-paced: Biology learning center primarily for nonscience majors SC/BZ 809
Self-paced: Competency-based self-paced algebra for students with weak mathematical backgrounds MI/MA 433
Self-paced: Computer aided lessons on graphic communications for architecture students AZ/IN 28
Self-paced: Computer applications of calculus MS/MA 468
Self-paced: Computer assisted economics lessons IN/SZ 280
Self-paced: Computer assisted instruction in intermediate algebra for business students MA/MA 369
Self-paced: Computer assisted instruction in physical, social and biological sciences WV/CS 925
Self-paced: Computer assisted instruction modules in elementary algebra TN/MA 829
Self-paced: Computer cartography in undergraduate geography IA/SZ 290
Self-paced: Computer integrated teaching modules for engineering design and manufacturing IN/EN 289
Self-paced: Computer managed laboratories for four cognitive physchology courses FL/PS 165
Self-paced: Computer modules for freshmen biology labs NY/BZ 558
Self-paced: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Self-paced: Computer teaching of problem solving in physics TN/PH 832
Self-paced: Computer-based testing in a modular remedial physics course NY/PH 550
Self-paced: Consultant prepared data-based reading assignments for political science mini-courses OH/SZ 676
Self-paced: Data collection and analysis in the physiology laboratory TX/BZ 855
Self-paced: Development of laboratories for production and safety engineering MO/ZZ 482
Self-paced: Development of laboratory alternatives in introductory biology GA/BZ 184
Self-paced: Development of solid state laboratory for undergraduate electrical engineers IN/IN 259
Self-paced: Dynamic LAP dissolved models for organic chemistry GA/CH 185
Self-paced: Economics lessons programmed on the CDC PLATO computer MN/SZ 443
Self-paced: Educational system utilizing water management modules NY/EN 623
Self-paced: Embryology and histology for premedical and predental students LA/BZ 341
Self-paced: Environmental engineering technology laboratory for four-year city college CO/EN 118
Self-paced: Equipment enhancement of general and organic chemistry courses AL/CH 8
Self-paced: Experimental and seminar approaches in introductory sociology TX/SZ 836
Self-paced: Final phase of anthropology 1 course improvement PA/SZ 774
Self-paced: Fluid mechanics laboratory on open channel flow OR/EN 733
Self-paced: General biology and independent studies MI/BZ 415
Self-paced: Guided design in interdisciplinary introductory college science program NJ/IN 529
Self-paced: Hand-held calculators for courses in statistical methods MT/MA 493
Self-paced: Health physics laboratory equipment purchase TN/PH 824
Self-paced: Hydraulics, hydrology, fluid mechanics experiments for undergraduate civil engineers VA/EN 902
Self-paced: Improved instruction in cell biology and biochemistry NC/BZ 639
Self-paced: Improvement in general chemistry using computer assisted instruction CT/CH 129
Self-paced: Improvement of instruction through the semi-paced teaching method KY/EN 328
Self-paced: Improvement of undergraduate plant physiology laboratory course CT/BZ 138
Self-paced: Improvement of undergraduate studies in petrography NY/EZ 569
Self-paced: Improvements in a projects laboratory with a spray dryer UT/EN 880
Self-paced: Improving data skills of sociology students through computer-assisted homework VA/SZ 900
Self-paced: Independent field marine laboratory for two-year college students FL/BZ 158
Self-paced: Individualized mathematics and science instruction TX/IN 841
Self-paced: Initiation of a review and remedial math clinic IA/MA 271
Self-paced: Inquiry method and Piagetian approach to general college chemistry CO/CH 128
Self-paced: Instructional ethnographic laboratory CA/SZ 92
Self-paced: Instructional materials for engineering experimentation for sophomores and higher NJ/EN 531
Self-paced: Instructional videocassettes on energy topics MS/PH 467
Self-paced: Instrumentation implementation for teaching contemporary science techniques MS/IN 461
Self-paced: Integrated general chemistry for independent study through audiovisual modules OH/CH 661

Self-paced: Integrated two-course sequence in genetics LA/BZ 337
Self-paced: Interactive auto-tutorial audiovisual modules for complex instrument operation MA/CH 384
Self-paced: Interactive computer graphics for simulating construction field operations CA/EN 84
Self-paced: Interactive computer mapping of cultures OR/SZ 737
Self-paced: Interdisciplinary undergraduate modular electrical and physical measurements laboratory ME/PH 352
Self-paced: Interfacing a microcomputer with instruments in a chemistry laboratory PA/CH 787
Self-paced: Introduction to environmental concepts for engineers IN/EN 257
Self-paced: Investigative introductory geology course in the field in Montana IN/EZ 246
Self-paced: Junior and senior personalized system of astrophysics instruction NM/ZZ 545
Self-paced: Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Self-paced: Laboratory course in modern practical optics UT/PH 881
Self-paced: Learning concepts of therapeutic exercise through specialized laboratory experiences MA/ZZ 370
Self-paced: Lecture vitalization using LAP-dissolve projection NY/CH 590
Self-paced: Lecture, laboratory manuals, and audiovisual aids in vertebrate physiology NY/BZ 593
Self-paced: Locational analysis in undergraduate geography and urban planning IA/SZ 291
Self-paced: Lock decoupler accessory for NMR in chemistry labs KY/CH 326
Self-paced: Mass spectrometry for undergraduates using a Varian EM-600 TX/CH 863
Self-paced: Mastery learning for students in animal anatomy and physiology AZ/BZ 30
Self-paced: Mastery learning with computer assisted testing OH/CH 673
Self-paced: Materials testing laboratory for small group instruction RI/EN 793
Self-paced: Medical electronic instrumentation for pre-medical students TN/PH 820
Self-paced: Microprocessor laboratory paralleling a computer lecture course VA/CS 913
Self-paced: Mini-research projects for advanced physics laboratory NJ/PH 518
Self-paced: Model testing studio for architectural structures PA/EN 775
Self-paced: Modular instruction in chemistry for underprepared learners IL/CH 227
Self-paced: Modular materials that assist biology students in investigation IL/BZ 235
Self-paced: Modularizing an elementary statistics course for behavioral science students IA/MA 270
Self-paced: Modules in aquatic microbiology for microbiology, non-microbiology courses NY/BZ 619
Self-paced: Modulized course in principles of entomology FL/BZ 166
Self-paced: Multidisciplinary laboratory course for science majors CA/IN 103
Self-paced: Natural science designed for the disadvantaged learner CA/IN 85
Self-paced: Nugoro subsistence and ecology OR/IN 738
Self-paced: Optical information processing experiments for undergraduates TX/EN 859
Self-paced: Optional activities for undergraduate animal biology students OK/BZ 719
Self-paced: Personal minicomputers to aid undergraduate instruction in computer design AL/EN 4
Self-paced: Physical chemistry for life sciences AR/CH 39
Self-paced: PLATO lesson modules for biomedical instrumentation IL/EN 233
Self-paced: Power systems laboratory to simulate systems using miniaturized equipment NC/EN 644
Self-paced: Project-oriented instruction in electronics and computer interfacing for chemists LA/CH 335
Self-paced: Purchase computing equipment for Wanakena campus NY/ZZ 611
Self-paced: Purchase of a computer terminal system WA/SZ 923
Self-paced: Remedial, tutorial, augmented self paced audiovisual instruction in mathematics AL/MA 9
Self-paced: Research equipment in autotutorial science teaching in undergraduate physiology IL/BZ 215
Self-paced: Restructuring the undergraduate learning environment HI/CH 188
Self-paced: Restructuring undergraduate laboratory teaching in biology SC/BZ 802
Self-paced: Scanning electron microscopy for undergraduate training OH/BZ 699
Self-paced: Scientific equipment for speech and hearing science undergraduate instruction AZ/ZZ 23
Self-paced: Self-paced multidisciplinary course for non-science majors afraid of science IL/IN 229
Self-paced: Short courses on special topics in physics NY/PH 616
Self-paced: Single instructor multilevel instruction for low enrollment courses IN/CH 261
Self-paced: Slide-tape assisted self-paced biochemistry laboratory for undergraduate women MA/BZ 381
Self-paced: Student laboratory in psychoacoustics MI/PS 414
Self-paced: Studies on radiation, projection, and radioactivity for science majors OH/IN 689
Self-paced: Subdividing general biology into competency, essential knowledge, multiple-choice courses MO/BZ 473
Self-paced: Surrogate field experience for geography students CA/SZ 54
Self-paced: Teaching about algae with an audio-tutorial module ND/BZ 660
Self-paced: Television and computer graphics assisted freshman chemistry MI/CH 430
Self-paced: Undergraduate experience using modern instrumental techniques in molecular biology IN/BZ 243
Self-paced: Upgrading lab facilities for neuroscience instruction OH/PS 686
Self-paced: Video techniques for qualitative analysis for undergraduate social sciences IL/SZ 200
Self-paced: Videotapes and worksheets for alternative remedial instruction in chemistry CA/CH 72
Self-paced: Visual and tutorial general biology for deaf students DC/BZ 149
Self-paced, partially: Introductory physical geology for law enforcement studies students OH/EZ 679
Semiconductor device fabrication projects TX/EN 858
Semiconductor device: Development of solid state laboratory for undergraduate electrical engineers IN/IN 259
Semiconductor material and device project laboratory stressing data validation NY/EN 628
Semiconductor memory Hamilton Avnet Co. MO/EN 488
Semiconductors: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Seminar experimental introductory sociology TX/SZ 836
Seminar research undergraduate natural science KS/ZZ 299
Seminar: Endocrine glands workshop and research laboratory SD/BZ 818
Semi-paced teaching method KY/EN 328
Senior laboratory in applied acoustics measurements with minicomputer assistance IL/PH 219
Senior level envi[illegible]tal air pollutants sampling and monitoring course IN[illegible]7
Senior research: Nuclear magnetic resonance spectroscopy in the undergraduate chemistry curriculum OH/CH 705
Senior research: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Senior undergraduate physics laboratory improvement MO/PH 477
Sensation and perception: Experimental psychology laboratory training program TX/PS 879
Sensation and perception: Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Sensor Lambda quantum pyranometer photometric NM/BZ 540
Sensory basis of art and human communication FL/IN 172
Sensory biology: Neurophysiological and behavioral experiments in undergraduate organismic biology laboratory MD/BZ 365
Sensory psychology laboratory measurement techniques MA/PS 383
Sensory testing: Perception laboratory apparatus for general undergraduate psychology teaching IL/PS 223
Separation science experiment: Integrated science laboratory module improvement TX/IN 839
Separations: Modern instrumentation for laboratory exercises in biochemistry MN/CH 456
Sepra Tek Gelman electrophoresis system, FL/BZ 151
Sepratech electrophoresis apparatus Gelman NJ/BZ 522
Serial input output board NE/CS 502
Serial interface board PASLA Interdata NE/CS 502
Serology, immunology immunohematology, NJ/ZZ 528
Serum protein electrophoresis: Animal physiology for sophomore biology students MO/BZ 472
Servall GLC-2 centrifuges CT/BZ 137
Servo control system Feedback Inc. OH/EN 669
Servo system d.c. Feedback Systems Inc. AZ/EN 25
Servomex oxygen analyzer OA-250 PA/BZ 788
Sewage disposal: Instructional equipment for Kirkwood's activated sludge training program IA/ZZ 283
Sewage treatment: Engineering design learned using computers and microprocessor simulated plants IN/EN 264
Shaker bath water American Optical NY/BZ 570
Shaker gyrotary waterbath New Brunswick PA/BZ 789
Shaker Psycrotherm incubator New Brunswick UT/BZ 882
Shaker water bath New Brunswick scientific CT/BZ 137
Shaking water bath Braun Thermomix KS/CH 297
Sharp cassette player Casseducator RD 465AVI OH/CH 673
Sharp cassette player Casseducator RD 650AV OH/CH 673
Sharp video monitor color NY/EZ 551
Sherer model CEL44 constant temperature and humidity chamber MI/BZ 415
Sherer plant growth chamber CT/BZ 138
Sherer plant growth chamber CEL 36-10 MN/BZ 459
Shifter phase Multi-AMP TN/EN 822
Shive wave machine Ealing SD/PH 819
Shock and vibration: Mechanical engineering undergraduate laboratory NM/EN 541
Shock waves: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181

Shocker scramblers Coulbourn PA/PS 760
Short courses on special topics in physics NY/PH 616
Shoulder human Nasco life-form LA/BZ 333
Shuttle boxes rodent BRS/LVE PA/PS 760
Sidescan sonar system EDO Western FL/EN 160
Sigma 7 computer CA/SZ 93
Signal averager Nicolet Co. NV/CH 506
Signal enhancement seismograph Bison HI/EZ 189
Signal generator rf Logimetrics NJ/PH 518
Signal processing: Microprocessor equipment for laboratory use in electrical engineering PA/EN 757
Signal processing: PLATO lesson modules for biomedical instrumentation IL/EN 233
Signal processor Fintronics OH/PS 688
Signal recorder analog Heathkit MA/PS 383
Signetics Corp. 2650 microprocessor instructor NC/PH 637
Silicon rectifiers General Electric MA/EN 398
Silicon surface barrier detector Ortec Inc. VT/PH 887
Simpson potentiometric XY-YT miniature recorder 2745 CA/EZ 51
Simpson VOM 260 MI/IN 423
Simpson 260-6 volt and ohm meter PA/PH 773
Simulated experiments computer physics FL/PH 155
Simulated experiments: Computer modules for freshmen biology labs NY/BZ 558
Simulated plants computers microprocessor engineering design IN/EN 264
Simulating models: Lecture, laboratory manuals, and audiovisual aids in vertebrate physiology NY/BZ 593
Simulation experiments for physics foundations course VT/PH 885
Simulation process design computer-aided NY/EN 606
Simulation programs minicomputer digital circuit design OK/CS 726
Simulations: Purchase computing equipment for Wanakena campus NY/ZZ 611
Simulations: Theoretical physical chemistry laboratory CA/CH 94
Simulations, graphics computer physics FL/PH 156
Simulation: Computer graphics in physical science classes KS/CH 294
Simulation: Dynamics and control systems laboratory for mechanical engineering students AZ/EN 25
Simulation: Interactive timesharing computing environment for forest science instruction WI/ZZ 941
Simulation: Process dynamics and control experiment development OH/EN 708
Simulation: Software for instruction in cognitive psychology laboratory CO/PS 127
Simulator cardiovascular Pasco NY/PH 598 TX/PH 849
Simulator ECG NY/PH 598
Simulator environment systems software development TN/CS 831
Simulator heart mechanical Pasco TN/PH 820
Simulator laboratory automated industrial IN/EN 254
Simultaneous recording of three physiological parameters in vertebrates NY/BZ 576
Sine wave generator B and K NY/EN 625
Singer Caramate MN/CH 442
Singer Caramate II rear screen slide projector MA/BZ 381
Singer Caramate slide sound projector 8805 IN/EN 257
Singer Caramate 35 mm sound slide viewer SC/BZ 802
Singer Corp. CARAMATE II slide projector 8865 CA/SZ 54
Singer Corp. CARAMATE II slide projector 8866 CA/SZ 54
Singer filmstrip projector 400 IA/MA 271
Singer Howe learning module 35 AL/MA 9
Single concept tapes: Television and computer graphics assisted freshman chemistry MI/CH 430
Single Concept Video Tapes and Observational Laboratories for Astronomy SC/PH 798
Single instructor multilevel instruction for low enrollment courses IN/CH 261
Site analysis: Environment oriented aerial photo interpretation laboratory for science majors IL/SZ 237
Skeletal materials Turtox IN/BZ 247
Skeleton articulated Medical Plastics AL/BZ 11
Skeleton human Carolina LA/BZ 333
Skeleton human Carolina Biological Supply TX/SZ 850
Skeleton human disarticulated Carolina Biological TX/BZ 837
Skeletons human physical anthropology TX/SZ 850
Skills improvement reading science course materials AZ/CH 26
Skills research interdisciplinary social science AL/IN 13
Skin resistance module Coulbourn Instruments OH/PS 670
Skinfold calipers Lange NY/BZ 566
Skull model Medical Plastics AL/BZ 11
Slab saw Hillquist MA/EZ 382
Slide and tape format: Audiovisual materials and data assessment for college chemistry laboratory MN/CH 442
Slide and tape programs for medical instrumentation WI/EN 942
Slide cassette recorder Bell and Howell LA/PS 339
Slide projector NY/PH 560
Slide projector Kodak IA/PS 289
Slide projector Kodak Ektagraphic SC/BZ 809
Slide projector random access Kodak LA/PS 339
Slide projector rear screen Singer Caramate MA/BZ 381
Slide projector Singer Corp. CARAMATE CA/SZ 54
Slide projector sound Ringmaster Bell Howell NY/PS 553
Slide projectors Kodak OH/BZ 690
Slide projector, Ektagraph Kodak AZ/BZ 30
Slide reader projector photoelectric Lafayette Instruments AR/PS 38
Slide sound projector Singer Caramate IN/EN 257
Slide viewers Kodachrome Bell Howell OH/BZ 690
Slides human tissue Turtox IN/BZ 247
Slides microscope teaching kodachromes OH/BZ 690
Slide-tape assisted self paced biochemistry laboratory for undergraduate women MA/BZ 331
Slide-tape lectures: Lecture, laboratory manuals, and audiovisual aids in vertebrate physiology NY/BZ 593
Sludge activated training program Kirkwood's IA/ZZ 283
Sludge plant activated Biospherics PA/EN 776
Small computer for students and faculty in several departments CA/IN 67
Small mechanical vibrations laboratory OH/EN 703
Small-group discovery method: Competency-based self-paced algebra for students with weak mathematical backgrounds MI/MA 433
Social ecology: Environmental studies program field equipment project NC/ZZ 651
Social interaction: Video monitoring and recording equipment for human research sequence AL/PS 17
Social physical, biological sciences computer assisted instruction WV/CS 925
Social problems: Thematic approach to undergraduate social science curriculum VA/SZ 906
Social psychology behavior belief MI/PS 410
Social psychology: Human research laboratory for junior level psychology majors AR/PS 38
Social psychology: Video monitoring and recording equipment for human research sequence AL/PS 17
Social science computing facilities for liberal arts college CT/IN 135
Social science laboratory equipping KS/SZ 311
Social science research skills interdisciplinary AL/IN 13
Social science thematic approach VA/SZ 906
Social sciences qualitative analysis video techniques IL/SZ 200
Social sciences teaching improvement IL/IN 205
Social sciences: Adaptive evaluation structure for computer based instruction IA/SZ 292
Social sciences: Computer assisted economics lessons IN/SZ 260
Social sciences: Computer assisted introductory sociology and research methods TN/SZ 828
Social sciences: Computer based approach to teaching introductory sociology OH/SZ 685
Social sciences: Computer cartography in undergraduate geography IA/SZ 290
Social sciences: Computer equipment for undergraduates OK/SZ 723
Social sciences: Consultant prepared data-based reading assignments for political science mini-courses OH/SZ 676
Social Sciences: Data analysis exercises in anthropology MN/SZ 447
Social sciences: Economic history from periods of structural economic change VA/SZ 892
Social sciences: Economics lessons programmed on the CDC PLATO computer MN/SZ 443
Social sciences: Experimental and seminar approaches in introductory sociology TX/SZ 836
Social sciences: Final phase of anthropology 1 course improvement PA/SZ 774
Social sciences: Hand-held calculators for courses in statistical methods MT/MA 493
Social sciences: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Social sciences: Improving data skills of sociology students through computer-assisted homework VA/SZ 900
Social sciences: Interactive computer game on principles of income distribution, economics TX/SZ 854
Social sciences: Interactive computer mapping of cultures OR/SZ 737
Social sciences: Interdisciplinary introductory video tape course in sociology and anthropology OH/SZ 675
Social sciences: Locational analysis in undergraduate geography and urban planning IA/SZ 291
Social sciences: Multiple instructional innovations in introductory economics IL/SZ 211
Social sciences: PLATO modules for teaching political science research methods MN/SZ 444
Social sciences: Purchase of a computer terminal system WA/SZ 923
Social sciences: Self paced video and computer assisted instruction in ethnography CA/SZ 93
Social sciences: Surrogate field experience for geography students CA/SZ 54
Social sciences: Undergraduate archeology laboratory program CA/SZ 104
Social science: Multidisciplinary university introduction to children as a research topic CA/SZ 91
Social science: Self-paced materials for a competency-based fundamental science curriculum MI/IN 405
Social science: Small computer for students and faculty in several departments CA/IN 67
Social welfare: Human biology for human services personnel NH/BZ 510

Society and the engineer, and analysis of product failures NY/EN 582
Society technology course transportation component NJ/EN 524
Sociology computer based teaching OH/SZ 685
Sociology data skills computer-assisted homework VA/SZ 900
Sociology experimental seminar approaches TX/SZ 836
Sociology research computer assisted TN/SZ 828
Sociology video tape course OH/SZ 675
Sociology: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Sociology: Interactive computer mapping of cultures OR/SZ 737
Sociology: Multidisciplinary science study project center for two-year college OR/IN 748
Sociology: Multidisciplinary university introduction to children as a research topic CA/SZ 91
Sociology: Thematic approach to undergraduate social science curriculum VA/SZ 906
Socio-economic development: Data analysis exercises in anthropology MN/SZ 447
Sockets solderless NJ/EN 517
Software Calcomp TX/EN 865
Software course microcomputer NY/CS 552
Software DEC MA/CS 393
Software development systems environment simulator TN/CS 831
Software for instruction in cognitive psychology laboratory CO/PS 127
Software Fortran laboratory Digital Equipment OH/CH 683
Software hardware laboratory computer MN/CS 451
Software hardware microcomputer minicomputer laboratory MA/CS 393
Software implementation of a microcomputer laboratory for computer education NV/CS 505
Software link between computers: Integrated mini-micro learning center NE/CS 502
Software operating system OK/IN 722
Software PLOT 10 Tektronix IN/EN 269
Software: Elementary chemical instrumentation for computer-interfaced data acquisition and processing CT/CH 141
Soil and crop science: Resource center and laboratory experience program development IN/ZZ 251
Soil coring sampling machine Giddings IN/ZZ 251
Soil geography course AZ/EZ 27
Soil plant science teaching audio tutorial, self instructional AL/EZ 1
Soil science: Interdisciplinary program in powder X-ray diffraction IL/EZ 236
Soil source kits Van Water Rogers CA/IN 85
Soil test outfit Lamotte AZ/EZ 27
Soil testing MTS CO/EN 126
Soil testing: Natural science designed for the disadvantaged learner CA/IN 85
Soils test system CO/EN 126
Solar building passive CO/PH 123
Solar cell and Schottky diode fabrication, thermoelectricity lab experiments NY/EN 575
Solar concentrating collectors CO/PH 123
Solar energy lab module: Integrated science laboratory module improvement TX/IN 839
Solar energy: Energy and sun and synthesis of astronomy and technology CO/PH 122
Solar energy: Energy awareness in engineering physics PA/PH 771
Solar energy: Mechanical engineering undergraduate laboratory NM/EN 541
Solar energy: Physics laboratory for architects AR/IN 37
Solar energy: Solar cell and Schottky diode fabrication, thermoelectricity lab experiments NY/EN 575
Solar flatplate air collectors CO/PH 123
Solar flatplate water CO/PH 123
Solar laboratory equip and assemble CO/ZZ 120
Solar laboratory instructional MA/ZZ 371
Solar phenomena: Equip and assemble a solar laboratory CO/ZZ 120
Solar power: Booklets of undergraduate physics course material from current research CA/PH 63
Solar thermal student laboratory and classroom demonstration CO/PH 123
Solderless sockets NJ/EN 517
Solid state control: Electromechanical energy conversion for the eighties NY/EN 591
Solid state devices: Power electronics lab for electrical engineers MA/EN 398
Solid state electronics: Undergraduate semiconductor device fabrication projects TX/EN 858
Solid state laboratory electrical engineers IN/IN 259
Solid state laboratory for aversive control of animal behavior PA/PS 760
Solid state laboratory: Solar cell and Schottky diode fabrication, thermoelectricity lab experiments NY/EN 575
Solid state physics laboratory for seniors CA/PH 55
Solid state physics: Physics and technology of materials OH/PH 681
Solid state power supply Coulbourn Instruments OH/PS 670
Solid state: Short courses on special topics in physics NY/PH 616
Solids meter total Scientific Products Inc. VA/CH 898
Solution calorimeter Parr IL/CH 202 MN/CH 441
Solution calorimetry combustion organic chemistry WV/CH 929
Solution calorimetry: Laboratory equipment for integrated junior and senior chemistry laboratory MN/CH 441
Solvent delivery system Waters Associates MN/CH 450
Solvent extraction: Food engineering technology laboratory for four year program KS/EN 300
Solvent programmer high performance liquid chromatography Waters Associates MI/CH 412
SOL-20 computer terminal NY/PS 600
Sonar sidescan system EDO Western FL/EN 160
Sonar underwater side scan system FL/EN 160
Sonic dismembrator Artex NC/BZ 639
Sonic oscillator grinder Brinkman Polytron AL/IN 16
Sonic vibrator Fisher Scientific TX/EZ 845
Sonicator Bronwill CT/BZ 137
Sony black and white monitor CVM-1250 OH/BZ 700
Sony CCP-13 portable cassette recorder IN/EN 257
Sony color camera DXC-1200 MI/CH 430
Sony color monitor AK/BZ 20
Sony color video cassette recorder VO-2600 OK/EN 714
Sony color video monitor KV-1910-V MI/CH 430
Sony Corp. Betamax video tape recorder SL0260 MO/PH 478
Sony CVM-1250 color monitor and receiver IL/SZ 200
Sony DXC-1610 color portable camera IL/SZ 200
Sony portable color TV camera DXC-1600 OK/EN 714
Sony portable color video cassette recorder VO-3800 OK/EN 714
Sony RM-430 controller IL/SZ 200
Sony SLO-320 Betamax recorder IL/SZ 200
Sony SLO-320 video tape recorder with digital remote control AL/PS 17
Sony SLO-340 portable color recorder IL/SZ 200
Sony tape recorder TC-44 IA/PS 289
Sony Unimedia color monitor receiver ULT-1903 ND/BZ 652
Sony video cassette player AK/BZ 20
Sony video cassette tape player CA/SZ 92 CA/SZ 93
Sony video cassettes OH/SZ 676
Sony video tape OH/SZ 676
Sony VP-2000/RFK 203 color videotape cassette players DC/BZ 149
Sony 19in. KV1920 color TV monitors DC/BZ 149
Sophomore laboratory on programmed logic AZ/EN 31
SOROC IQ120 CRT terminal TN/SZ 828
SOROC Technology Computer Terminal IQ120 TN/MA 829
SOROC Technology IQ 120 computer terminal CO/CS 112
Sorvall automatic superspeed refrigerated centrifuge RC-5B KS/CH 297
Sorvall centrifuge RC-5B DuPont SV-80 vertical rotor AL/BZ 3
Sorvall centrifuge rotor GSA ID/CH 197
Sorvall centrifuge rotor SS-34 ID/CH 197
Sorvall glass knife breaker DuPont VA/BZ 905
Sorvall GLC-28 table top centrifuge NJ/ZZ 528
Sorvall microtome DuPont VA/BZ 905
Sorvall MT-2B ultramicrotome MI/BZ 404
Sorvall preparative centrifuge Dupont VT/CH 884
Sorvall RC-5B refrigerated centrifuge DuPont AL/BZ 3
Sorvall refrigerated centrifuge RC-5B ID/CH 197
Sound cage Marietta Apparatus IL/PS 223
Sound level meter Quest Electronics AR/IN 37
Sound level system B and K MN/EN 454
Sound Page System player 3M Co. OK/MA 727
Sound Page 3M recorder player IL/EN 228
Sound Pages master recorder audio printer NE/MA 503
Sound slide mm Singer Caramate SC/BZ 802
Sound slide projector Ringmaster Bell Howell NY/PS 553
Sound slide projector Singer Caramate IN/EN 257
Sound vibration analyzer Metirx NM/EN 541
Sound-treated chamber Tracoustics MI/PS 414
Sound: Student laboratory in psychoacoustics MI/PS 414
Sound: Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Southwest Technical Product 6800 IN/EN 252
Southwest Technical Products 6800/2 computer system MO/EN 486
Space colonies: Booklets of undergraduate physics course material from current research CA/PH 63
Space colonization: Introductory physics with an engineering ambience for non-science majors NY/PH 560
Space Optics optical Fourier system UT/PH 881
Space science: Introductory physics with an engineering ambience for non-science majors NY/PH 560
Spanish psychology instruction PR/PS 960
Spatial filter equipment: Modern optics and laser physics laboratory for four-year college WI/PH 931
Spatial filtering: Optical information processing experiments for undergraduates TX/EN 859
Speaker amplifier Lafeyette Co. NY/PS 588
Speakers: Self-paced proficiency modules for teaching statics and dynamics labs IL/EN 228
Spec spectrophotometer B and L PA/EN 776
Spec 20 Bausch Lomb MO/BZ 473
Special education: Human biology for human services personnel NH/BZ 510
Special effects generator monochrome Panasonic AL/PS 17

Special interests: Development of laboratory alternatives in introductory biology GA/BZ 184
Specialized microbiology subcourse for undergraduates MA/BZ 379
Specific heats: Solid state physics laboratory for seniors CA/PH 55
Specific ion Orion RI/BZ 794
Specimen coating apparatus Polaron OH/BZ 699
Spectra Physics He-Ne lasers 142 and 144 RI/EN 791
Spectra Physics laser power meter 404 WI/PH 931
Spectra Physics laser spectrum analyzer 450-03 WI/PH 931
Spectra Physics 5-mwatt laser 120 WI/PH 931
Spectra structure determination IL/IN 204
Spectral analysis: Biomedical transducers and instrumentation laboratory for undergraduate engineers IL/EN 234
Spectranal emission spectrograph CT/CH 133
Spectrex Co. direct reading spectroscope model 7 CT/ZZ 139
Spectrex Co. Vreeland direct reading spectroscope AZ/EZ 22
Spectrex spectroscope Vreeland MN/EZ 458
Spectrochemical analysis of earth materials for undergraduates MN/EZ 458
Spectrofluorimeter Perkin Elmer NE/CH 501
Spectrograph emission Spectranal CT/CH 133
Spectrographic display speech spectrophonics AZ/ZZ 23
Spectrometer MA/ZZ 371
Spectrometer atomic absorption Varian OR/CH 744
Spectrometer ESR Micro Now NJ/CH 526
Spectrometer Gilford VT/CH 884
Spectrometer grating McPherson RI/EN 791
Spectrometer liquid scintillation Beckman TX/ZZ 853
Spectrometer mass chemistry instruction KY/CH 323
Spectrometer mass chemistry laboratories KY/CH 320
Spectrometer mass Ealing IL/PH 207
Spectrometer mass microcomputer interface TX/CH 835
Spectrometer mass organic chemistry WI/CH 936
Spectrometer mass Varian CA/CH 50 CA/CH 76 KY/CH 316 KY/CH 320 KY/CH 323 NY/CH 630 PA/CH 749 PA/CH 783 TX/CH 835 TX/CH 863 VA/CH 893 VA/CH 899 VT/CH 889
Spectrometer mass Varian Instruments OR/CH 741
Spectrometer NMR Hitachi Perkin Elmer IN/CH 248
Spectrometer NMR organic chemistry NC/CH 635
Spectrometer NMR Varian CA/CH 50 GA/CH 174 KY/CH 320 NC/CH 635 NY/CH 612 VT/CH 889 WA/CH 924
Spectrometer nuclear magnetic resonance GA/CH 174
Spectrometer nuclear magnetic resonance Perkin Elmer AL/CH 18 LA/CH 334 MS/CH 465 SC/CH 801 WI/CH 932
Spectrometer nuclear magnetic resonance Varian IA/CH 273 NM/CH 546 OH/CH 705 OR/CH 744
Spectrometer portable gamma ray Geometrics Exploranium HI/EZ 189
Spectrometer recording Perkin Elmer NJ/CH 526
Spectrometer Spex Industries CA/PH 55
Spectrometer Tri-Carb Packard MN/BZ 438
Spectrometer UV and visible light CT/CH 133
Spectrometer 3438 AW Cenco AL/CH 8
Spectrometers mass interactive microprocessor simulation NY/CH 583
Spectrometer, proton NMR Varian NY/CH 615
Spectrometric analysis course mass spectrometry OR/CH 741
Spectrometry atomic absorption analytical chemistry OR/CH 745
Spectrometry gamma nuclear detection laboratory GA/EN 179
Spectrometry mass analytical organic chemistry NY/CH 630
Spectrometry mass spectrometric analysis course OR/CH 741
Spectrometry mass technical training NY/CH 626
Spectrometry mass Varian TX/CH 863
Spectrometry nuclear magnetic resonance research teaching IN/CH 248
Spectrometry scintillation Nucleus Inc. NY/PH 599
Spectrometry system gamma Ortec NJ/IN 534
Spectronic Bausch and Lomb CT/CH 133
Spectronic colorimeter B and L SD/BZ 813
Spectronic spectrophotometer Bausch Lomb AR/IN 34 SC/BZ 796 SD/BZ 818 VT/CH 884
Spectronic spectrophotometers Bausch Lomb NY/BZ 549
Spectronic spedrophotometer Bausch Lomb TN/PH 823
Spectronic uv-visible spectrophotometer 21 UV-M PA/BZ 780
Spectronic 20 spectrophotometer NY/BZ 566
Spectronic 20 spectrophotometers and reflectance attachment CA/ZZ 59
Spectronic 88 Bausch Lomb NY/BZ 607
Spectronic-21UVD spectrophotometers Bausch Lomb ID/CH 197
Spectrophonics speech spectrographic display SSD-1 AZ/ZZ 23
Spectrophotofluorometer Aminco Bowman PA/CH 758
Spectrophotomer Perkin Elmer recorder TN/CH 821
Spectrophotometer atomic absorption analytical chemistry IN/CH 240
Spectrophotometer atomic absorption Instrumentation Laboratory IN/CH 240
Spectrophotometer atomic absorption Instrumentation Labs OR/CH 745
Spectrophotometer atomic absorption Jarrell Ash NY/CH 630
Spectrophotometer atomic absorption Perkin Elmer CT/CH 132 IN/ZZ 251 PA/EN 776 TX/CH 838
Spectrophotometer atomic absorption Varian CO/EN 118 IL/EN 226 PA/CH 786
Spectrophotometer B and L Spec PA/EN 776
Spectrophotometer Bausch and Lomb NC/BZ 639
Spectrophotometer Bausch Lomb MI/BZ 419
Spectrophotometer Beckman CA/IN 95 LA/BZ 337 MA/CH 380 MN/CH 456 TX/BZ 856
Spectrophotometer Bosch Lomb RI/BZ 794
Spectrophotometer Coleman IA/ZZ 283
Spectrophotometer Coleman cell programmer ND/CH 654
Spectrophotometer Dial-Atom III Jarrell Ash NY/CH 568
Spectrophotometer Gilford MA/BZ 381
Spectrophotometer Hitachi CA/IN 95 VA/BZ 905
Spectrophotometer infrared KS/BZ 295
Spectrophotometer infrared Acculab Beckman Instruments TN/EN 825
Spectrophotometer infrared Beckman Acculab TX/CH 840
Spectrophotometer infrared Beckman Instruments MD/CH 356
Spectrophotometer infrared Cary Varian GA/CH 182
Spectrophotometer infrared Perkin Elmer CA/CH 76
Spectrophotometer infrared perkin Elmer KS/ZZ 302
Spectrophotometer infrared Perkin Elmer MS/IN 461 NE/CH 496 OH/CH 702 TN/CH 821 WA/CH 919
Spectrophotometer model 250 Gilford 2520 gel scanner AL/BZ 3
Spectrophotometer modular electronics chemistry NE/CH 496
Spectrophotometer NMR chemistry training CT/CH 142
Spectrophotometer nuclear magnetic resonance Varian CT/CH 142
Spectrophotometer Peakin Elmer VT/CH 886
Spectrophotometer Perkin Elmer FL/ZZ 161 MS/CH 465
Spectrophotometer photofluorometer undergraduate chemistry VT/CH 886
Spectrophotometer recorder Beckman MI/BZ 415
Spectrophotometer recording Gilford model 250 uv-vis AL/BZ 3
Spectrophotometer recording Perkin Elmer ND/CH 654 PA/ZZ 766
Spectrophotometer scanning Perkin Elmer Corp. TN/EN 825
Spectrophotometer single beam Turner CA/CH 56
Spectrophotometer Spectronic PA/BZ 780
Spectrophotometer Spectronic Bausch Lomb AR/IN 34 SC/BZ 796 SD/BZ 818
Spectrophotometer spectronic Bausch Lomb VT/CH 884
Spectrophotometer Spectronic 20 NY/BZ 566
Spectrophotometer uv Perkin Elmer WA/CH 919
Spectrophotometer uv/visible Cary KS/ZZ 302
Spectrophotometer Varian KS/CH 309
Spectrophotometer visible ChemAnal OK/CH 710
Spectrophotometer visible ultraviolet Perkin Elmer TN/CH 821
Spectrophotometer 6890XY Bausch and Lomb AL/CH 8
Spectrophotometers Bausch Lomb Sargent Welch Co. WY/BZ 954
Spectrophotometers Bausch Lomb Spectronic NY/BZ 549
Spectrophotometers for introductory organic chemistry laboratory WA/CH 919
Spectrophotometers infrared, visible, ultraviolet TN/CH 821
Spectrophotometers Spectronic 20 CA/ZZ 59
Spectrophotometers Spectronic-21UVD Bausch Lomb ID/CH 197
Spectrophotometers: Analytical equipment for undergraduate chemical engineering laboratory TN/EN 825
Spectrophotometer, Hitachi Perkin Elmer AL/CH 10
Spectrophotometry Atomic Absorption Polarography chemistry laboratories PA/CH 786
Spectrophotometry atomic absorption quantitative analysis NY/CH 568
Spectroscope Spectrex Vreeland MN/EZ 458
Spectroscope Vreeland direct reading Spectrex Co. AZ/EZ 22
Spectroscopic laboratory in introductory mineralogy AZ/EZ 22
Spectroscopy amplifier ORTEC NY/PH 599
Spectroscopy amplifier Ortec Inc. VT/PH 887
Spectroscopy and colorimetry laboratory for college textile science program KS/ZZ 302
Spectroscopy atomic absorption analytical chemistry student TX/CH 838
Spectroscopy experiments chemistry labs GA/CH 182
Spectroscopy germanium gamma Ortec NY/PH 592
Spectroscopy mass instrumental analysis PA/CH 749
Spectroscopy mass NMR organic laboratory VT/CH 889
Spectroscopy mass science majors VA/CH 893
Spectroscopy mass undergraduate chemistry CA/CH 45
Spectroscopy NMR organic laboratory NY/CH 612
Spectroscopy nuclear magnetic resonance NM/CH 546
Spectroscopy nuclear magnetic resonance chemistry WI/CH 932
Spectroscopy nuclear magnetic resonance chemistry curriculum OH/CH 705
Spectroscopy nuclear magnetic resonance organic chemistry laboratory IA/CH 273
Spectroscopy of gamma rays: Basic principles applied radiation physics NY/PH 599
Spectroscopy: Equip and assemble a solar laboratory CO/ZZ 120
Spectroscopy: Modernization of organic chemistry laboratory experiments OH/CH 702
Spectroscopy: Physical methods chemistry laboratory with improved data handling techniques VA/CH 908
Spectroscopy: Undergraduate use of a mass spectrometer in organic chemistry WI/CH 936
Spectrum analyzer Ailtech CA/EN 78
Spectrum analyzer computer graphics CA/ZZ 64
Spectrum analyzer Hewlett Packard CA/PH 81 IL/PH 219

Spectrum analyzer laser Spectra Physics WI/PH 931
Spectrum analyzer real time Rockland AR/PH 40
Spectrum analyzer Tektronic GA/PH 183
Spectrum analyzer Tektronix NC/PS 636 OR/EN 740
Spectrum analyzers time teaching acoustics speech AR/PH 40
Spectrum collection: Nuclear magnetic resonance spectrometer procurement for course improvement GA/CH 174
Spedrophotometer Spectronic Bausch Lomb TN/PH 823
Speech compressor tape recorder Variable Speech Control Co. IN/ZZ 251
Speech hearing science scientific equipment AZ/ZZ 23
Speech spectrographic display spectrophonics AZ/ZZ 23
Sperry Vickers portable hydraulics trainer MI/EN 401
Spex Industries spectrometer 1870 CA/PH 55
Spillway analysis accessories OR/EN 733
Spindler and Saupe Lap dissolve unit ND/BZ 658
Spinning basket reactor Berty Carberry ID/EN 196
Spin-lock and decoupler accessory for Varian NMR spectrometer WA/CH 924
Spontaneous neural activity: Animal physiology for sophomore biology students MO/BZ 472
Spray dryer projects laboratory UT/EN 880
Spray-Aire dryer laboratory Bowens Engineering Co. UT/EN 880
Sputter coater including vacuum pump E-5000 CA/BZ 60
Sputter coater Technics Hummer MI/BZ 404
Square wave stimulator Grass ME/BZ 348
Square wave stimulator oscilloscope Stoelting Co. OK/PS 728
Square wave stimulator Phippe Bird WA/BZ 922
Stability platform Lafayette Instrument Co. AZ/BZ 32
Stadler Grason audiometer AZ/ZZ 23
Staged processes: Computer-based PLATO instruction in chemical engineering IL/EN 231
Stand TV A. V. Educational Systems Inc. OH/PS 688
Standards radiograph ASTM IN/EN 268
Standing wave apparatus b and K NY/EN 625
Stansi air bearing turntable Fisher SD/PH 819
Star globe Farquhar SD/PH 811
Starkey hearing science laboratory AZ/ZZ 23
Starkey Laboratories hearing science laboratory MI/PS 414
State Systems Inc. interface boards and realtime clock MS/PS 469
State Systems integrated circuit PDP-8 interface MI/PS 402
State-of-the-art instrumentation in drug analysis courses KS/CH 309
Statham pressure transducer P2306 WA/BZ 922
Statics labs proficiency modules IL/EN 228
Statics: Demonstrations and interdisciplinary laboratories in engineering science WY/EN 953
Statistical calculator Monroe NY/MA 621
Statistical calculators Monroe NY/MA 579
Statistical communication theory laboratory DC/EN 150
Statistical mechanics PA/PH 762
Statistical methods calculators MT/MA 493
Statistics elementary behavioral science IA/MA 270
Statistics elementary labs NY/MA 579
Statistics general computer-based laboratory AL/MA 7
Statistics introductory modular multimedia OH/MA 694
Statistics laboratory IL/IN 213
Statistics laboratory equipment KY/PS 321
Statistics library BASIC Tektronix NY/BZ 558
Statistics team taught multimedia labs CA/MA 49
Statistics transparencies Lansford Publishing Co. OH/MA 694
Statistics: Computerized data analysis for taxonomy, plant identification and systematics WA/BZ 920
Statistics: Computer-assisted undergraduate research seminar in natural science KS/ZZ 299
Statistics: Experimental psychology laboratory training program TX/PS 879
Statistics: Mathematics and computing for undergraduate marine scientists NY/MA 572
Statistics: Mathematics problems from regional industries for undergraduate majors OK/MA 713
Statistics, improved instruction computers MD/MA 357
Statos 42 electrostatic printer plotter Varian OH/BZ 666
Steady state analysis of machines: Electromechanical energy conversion for the eighties NY/EN 591
Steam condensor Bell and Gossett OK/EN 717
Steam generator Clayton Co. OK/EN 717
Steam power laboratory for technology and engineering OK/EN 717
Steam superheater General Electric Co. OK/EN 717
Steam turbine Coppus Engineering OK/EN 717
Steamboiler electric Precision Electric Inc. OK/EN 729
Step motor scan drive Jarrel Ash monochromator KS/PH 298
Stepping motor laboratory ME/EN 353
Stereo image alternator Balplex WI/EN 948
Stereo interpretation aerial photos Bausch Lomb IL/SZ 237
Stereo microscope Leitz SC/EN 807
Stereo zoom microscope Bausch Lomb NY/EN 575
Stereo zoom transfer scope Bausch Lomb IL/EZ 220 IL/EZ 221
Stereometers Dietzgen CA/EZ 87
Stereomicroscope American Optical CT/BZ 140
Stereomicroscope Nikon MI/BZ 419
Stereomicroscope Wild CA/BZ 82 CT/BZ 140 MI/BZ 419
Stereoplotter engineering students WI/EN 948
Stereoscope microscopes American Optical TX/BZ 837
Stereoscope mirror Alan Gordon Enterprises OK/EZ 724
Stereoscope mirror Dietzgen CA/EZ 87
Stereoscope Wheatstone Marietta Apparatus, IL/PS 223
Stereoscopic microscope Hacker Instruments OK/EZ 724
Stereotaxic equipment David Kopf TX/PS 843
Stereotaxic instrument Kopf IL/BZ 215
Stereotaxic instrument small animal Kopf NC/PS 640
Stereotaxic localization: Animal physiology for sophomore biology students MO/BZ 472
Stereotaxic small animal Kopf Instruments DC/PS 147
Stereotaxic student Stoelting Co. OK/PS 728
Stereotaxics Kopf FL/IN 167
Stereotaxics Kopf student PA/PS 755
Sterilization: Food engineering technology laboratory for four year program KS/EN 300
Sterilmatic electric autoclave Curtin Matheson MI/BZ 424
Sterling sampling Otter trawl FL/BZ 158
Stern-Gerlach Ealing-Daybell apparatus OH/PH 691
Sterotaxic instruments Kopf Co. KY/PS 321
Still Corning DC/PS 147
Still electric Barnstead VA/EN 895
Stimulator auditory Grayson Stadler MA/PS 383
Stimulator electronic Grass Instrument OH/BZ 696
Stimulator electronic Harvard NJ/BZ 530
Stimulator Grass FL/IN 167 ND/BZ 655 NE/BZ 495
Stimulator Grass Co. MD/BZ 365
Stimulator Grass Instruments NM/BZ 540
Stimulator Narco MN/IN 434
Stimulator Physioscribes Stoelting IL/BZ 198
Stimulator square wave Grass ME/BZ 348
Stimulator square wave oscilloscope Stoelting Co. OK/PS 728
Stimulator square wave Phippe Bird WA/BZ 922
Stimulus measurement: Modern measurement techniques for undergraduate sensory psychology laboratory MA/PS 383
Stirring apparatus multiple Arthur Thomas Co. NY/EN 623
Stirring motors Magnestir magnetic Lab-Line Inc. TX/IN 848
Stoelting Co. dissecting kit 59004 OK/PS 728
Stoelting Co. fixation behavior kit 21704 NY/PS 588
Stoelting Co. oscilloscope and square wave stimulator OK/PS 728
Stoelting Co. rod and frame apparatus 12011 NY/PS 588
Stoelting Co. student stereotaxic 51204 OK/PS 728
Stoelting Co. tachistoscope 21216 NY/PS 588
Stoelting hydraulic microdrive OH/PS 688
Stoelting Physioscribes with stimulator IL/BZ 198
Stoelting P1 intracellular probe system ND/BZ 655
Stoichiometric calculations: Equipment enhancement of general and organic chemistry courses AL/CH 8
Stoichiometry: Computer-based PLATO instruction in chemical engineering IL/EN 231
Stop action analyzer projector Lafayette Instrument Co. AZ/BZ 32
Stopped flow apparatus made locally NE/CH 501
Storage cabinets fossil OR/BZ 736
Storage floppy disk North Star WI/IN 946
Storage oscilloscope bistable Tektronix AZ/EN 25
Storage oscilloscope Tektronix MD/BZ 365 ME/BZ 348 MI/PH 429 PA/PS 760
Storage oscilloscopes Tektronix IA/BZ 277
Storage oscilloscope: Computer graphics and spectrum analyzer for four year college CA/ZZ 64
Strain gage: PLATO lesson modules for biomedical instrumentation IL/EN 233
Stratigraphy: X-ray diffraction unit for geology, physics, and chemistry WI/IN 951
Stream analysis kit Millipore CA/EZ 52
Strength testing device isokinetic Lumex Inc. AZ/BZ 32
Stress and illness: Innovative undergraduate course in social psychology and health CA/ZZ 96
Stress optical analyzer Ealins UT/PH 881
Strip chart recorder gilford MA/BZ 381
Strip chart recorder Gould Brush CA/EN 57
Strip chart recorder Heath NM/BZ 540
Strip chart recorder Heath Schlumberger IL/PS 223
Strip chart recorder Hewlett Packard NY/EN 603 OH/PS 688
Strip chart recorder Honeywell Inc. OK/EN 729
Strip chart recorder Houston PA/CH 749
Strip chart recorder Pasco TN/PH 820
Strip chart recorder Tekmar OH/BZ 696
Strip chart recorder Varian OR/CH 745 TX/CH 863
Strip chart recorders Leeds Northrup NM/EN 541
Strip-chart recorder Heath NJ/PH 518
Stroboscope tachometer Tachlite TN/EN 822
Strobotacs Genrad NY/EN 575
Structural analysis in organic chemistry MA/CH 373
Structural analysis: Mass spectrometry for undergraduates using a Varian EM-600 TX/CH 863
Structural dynamics computer graphics NY/EN 586
Structural engineering computer graphics VA/EN 894
Structural geology: Undergraduate instruction in photogeology CA/EZ 87
Structural visualization: Scanning electron microscopy for undergraduate plant morphology instruction CA/BZ 60
Structure analysis: Physics laboratory for architects AR/IN 37
Structure determination using spectra and on-line bibliographic retrieval systems IL/IN 204

Structured FORTRAN for the first course in computer science NY/CS 605
Structures architectural model testing studio PA/EN 775
Structures test system Technovate Corp. RI/EN 793
Structures: Options in junior and senior year in professional courses NY/EN 633
Strut apparatus Tecquipment Incorp. RI/EN 793
Student guide to observational research in animal behavior PA/IN 753
Student interpretation of landsat imagery NC/EZ 649
Student laboratory in psychoacoustics MI/PS 414
Student participation experiments in elementary physics PA/PH 773
Student research instruction in psychobiology CT/IN 131
Student research: Experimental psychology laboratory for undergraduate instruction NC/PS 640
Student research: Laboratory activities in physiological psychology, learning, and other courses LA/PS 339
Students architecture computer aided lessons graphic communications AZ/IN 28
Students mastery learning animal anatomy physiology AZ/BZ 30
Studies on radiation, projection, and radioactivity for science majors OH/IN 689
Study carrel Quest SC/BZ 809
Subcellular organelles: Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation KY/BZ 315
Subdividing general biology into competency, essential knowledge, multiple-choice courses MO/BZ 473
Submersible photometer Protomatic VA/IN 901
Subsistence ecology nogero OR/IN 738
Sucrose gradient centrifuge rotor IEC AL/IN 16
Sugar: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Suite approach in teaching introductory sedimentology ND/EZ 659
Sulfur dioxide monitor Monitor Labs IN/EN 267
Summagraphics Bit Pad digitizer TX/EN 851
Sun energy astronomy technology CO/PH 122
Superconducting magnet Superconducting Technology Inc. OH/PH 684
Superconducting Technology Inc. superconducting magnet OH/PH 684
Superconductivity: Solid state physics laboratory for seniors CA/PH 55
Superfluids: Booklets of undergraduate physics course material from current research CA/PH 63
Superheater steam General Electric Co. OK/EN 717
Superpro Recordex cassette duplicator TX/IN 841
Superscope audio cassette recorder VT/EN 891
Superterm high speed teleprinter Intertec WA/SZ 923
Super-speed centrifuge for molecular biology OK/BZ 711
Surface barrier detector silicon Ortec Inc. VT/PH 887
Surface tensiometer Fisher KS/EN 300
Surface tension Electrobalance Cahn NJ/CH 526
Surfaces: Computer generated phase diagrams in thermodynamaics education IA/EN 279
Surgical instruments FL/IN 167
Surgical techniques: Endocrine glands workshop and research laboratory SD/BZ 818
Surgical technique: Methods in neurobiology FL/IN 167
Surrogate field experience for geography students CA/SZ 54
Survey meter Nucleus Inc. NY/PH 599
Survey meter Victoreen MO/PH 479
Survey of applied mathematics for life scientists TX/MA 872
Surveying altimeter micro AZ/EZ 27
Surveying electronic distance meter SC/EN 806
Surveying measurements land computations laboratory LA/EN 338
Surveying technician: Purchase computing equipment for Wanakena campus NY/ZZ 611
Surveying: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Swedish increment borer FL/IN 159
Sweep generator Wavetek CA/EN 78
Swept frequency microwave measurements and measurement of frequency spectrum CA/EN 78
Swinging bucket rotor centrifuge Beckman IN/BZ 243
Sykes dual density dual floppy disk unit NY/PS 600
Sykes dual floppy disk 7000 IN/EN 266
Symap: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Synsor learning module AVO-40W with TI 3/4in. video cassette AL/MA 9
Synthesis laboratory computer assisted mechanical systems analysis NH/EN 513
Synthesis organic computer teaching MA/CH 389
Synthesizer ARP MA/IN 397
Synthesizers ElectroComp CA/PH 81
System analyzers Prolog Corp. OR/EN 732
System consoles McKee Pedersen Instruments PA/CH 782
System design laboratory microcomputer TX/CS 847
System design: Implementation of interactive computer graphics in undergraduate engineering education WI/EN 947
System modeling: Four-machine model electric power system for power engineering laboratory MO/EN 483
System operating Digital Equipment Corp. WV/CS 925
Systematics computerized data analysis WA/BZ 920
Systematics modules general zoology IL/BZ 222
Systems analysis: Application of modern quantitative techniques to biological problems NY/BZ 632
Systems analysis: Development of interdisciplinary social science research skills AL/IN 13
Systems programming: Environment simulator for systems software development TN/CS 831
Systems programming: Improvement of undergraduate course in computer and operating systems NJ/CS 532
Systems programming: Integrated mini-micro learning center NE/CS 502
Systems programming: Minicomputer equipment for computer science instruction and laboratory automation NM/CS 539
Systron Bonner microprocessor analyzer NH/CS 514
Table air Ealing WY/EN 953
Table air student Ealing TX/PH 846
Table flow visualization Scott Armfield WY/EN 953
Table holographic Byron Ellis Assoc. WI/PH 939
Tables, Models Testing PA/EN 775
Tablet graphic Tektronix OH/BZ 666
Tachisto projector polymetric IL/PS 223
Tachistoscope for undergraduate experimental psychology RI/PS 792
Tachistoscope Harvard Gerbrands Co. KY/PS 321
Tachistoscope projection Gerbrands Co. AR/PS 38
Tachistoscope Scientific Prototype AR/PS 38 LA/PS 339 RI/PS 792
Tachistoscope Stoelting Co. NY/PS 588
Tachistoscopic attachment Lafayette electronic TX/PS 879
Tachlite 832 tachometer stroboscope TN/EN 822
Tachometer stroboscope Tachlite TN/EN 822
Talking pages to supplement large class instruction OK/MA 727
Tandberg tape recorder, half-track 2-channel model 10XD AR/PH 40
Tandy TRS-80 minicomputer AZ/ZZ 23
Tanks polyethylene Nalgene OK/EN 729
Tape drive cassette Techtron VA/SZ 900
Tape modules video physics MO/PH 478
Tape player video monitor JVC IN/ZZ 251
Tape punch paper NJ/EN 517
Tape recorder Akai 4000 DSMKII MA/PS 383
Tape recorder cartridge Tektronix MN/EN 454
Tape recorder cassette digital TX/CS 864
Tape recorder CR6000U LA/BZ 341
Tape recorder Hewlett Packard instrumentation IL/BZ 215
Tape recorder Nakamichi CA/PH 81
Tape recorder Sony IA/PS 289
Tape recorder speech compressor Variable Speech Control Co. IN/ZZ 251
Tape recorder Teac CA/EN 57
Tape recorder TEAC WI/PH 944
Tape recorder video Betamax Sony Corp. MO/PH 478
Tape recorder video Sony digital remote control AL/PS 17
Tape recorder Wollensak IN/ZZ 251
Tape recorder, Tandberg AR/PH 40
Tape sampler chart recorder Precision Scientific NJ/CH 515
Tape slide programs medical instrumentation WI/EN 942
Tape subsystem magnetic Digital Equipment Corp. WV/CS 925
Tape transport DEC NJ/CS 532
Tape video Sony OH/SZ 676
Tapes color video engineering courses OK/EN 714
Tapes self-instructional AK/BZ 20
Taxonomy: Teaching about algae with an audio-tutorial module ND/BZ 660
Taxonomy, computerized data analysis WA/BZ 920
Teac four channel FM tape recorder R 70-A CA/EN 57
TEAC tape recorder A-3340S WI/PH 944
Teacher elementary improvement biological science AZ/BZ 24
Teacher paced: Audio-tutorial minicourses for college algebra and trigonometry IN/MA 249
Teacher training program: Multiple instructional innovations in introductory economics IL/SZ 211
Teacher training: Small computer for students and faculty in several departments CA/IN 67
Teachers preservice Piagetian-based physical sciences course NE/IN 500
Teaching about algae with an audio-tutorial module ND/BZ 660
Teaching acoustics and speech with real time spectrum analyzers AR/PH 40
Teaching aids astronomy laboratory SD/PH 811
Teaching aids: Computer generated phase diagrams in thermodynamaics education IA/EN 279
Teaching fluorescence assay in a biochemistry laboratory course CA/BZ 89
Teaching information processing system: Multiple instructional innovations in introductory economics IL/SZ 211
Teaching laboratory physiological psychology OK/PS 728
Teaching mathematics computer audiovisual equipment AL/MA 6
Teaching microscope Wild MA/ZZ 391
Teaching modules engineering design manufacturing IN/EN 269
Teaching modules: Engineering applications problem modules for undergraduate engineering mathematics programs WV/MA 926
Teaching of thermoluminescent dosimetry of environmental radiation IN/PH 242

Teaching packages: Educational uses of computer graphics CA/CS 102
Teaching philosophy of science with a laboratory IL/ZZ 206
Teaching srategies: Cataloguing student conceptual models in introductory university physics MA/PH 390
Teaching strategies: Inquiry role approach for teaching physical science NE/PH 498
Teaching tube pointer wild MA/ZZ 391
Team taught interdisciplinary statistics with multimedia labs CA/MA 49
Teca AA6 EMG amplifiers MA/ZZ 370
Teca AD6 balanced dc amplifiers MA/ZZ 370
Teca TE-4 four channel electromyograph with fiber optic recorder MA/ZZ 370
Teca 16 full wave integrators MA/ZZ 370
Technical Associates gas proportional counter SFM-5V-3 MO/PH 479
Technical students perceptual laboratory NY/PS 588
Technically assisted education: Computerized data acquisition for mechanical engineering undergraduates NY/EN 557
Technician training biochemistry introductory laboratory AL/IN 16
Technician training electron microscopy NY/IN 589
Technician training environmental NJ/CH 515
Technician training (serology): Immunohematology, serology, and immunology for college students NJ/ZZ 528
Technician training: Aquatic ecology for liberal arts undergraduate women VA/IN 901
Technician training: Atomic absorption spectroscopy for analytical chemistry students TX/CH 838
Technician training: Audio tutorial anatomy and physiology laboratory for health sciences TX/BZ 837
Technician training: Audio tutorial self paced experiments open channel flow OR/EN 734
Technician training: Basic chemical instrumentation with media assistance NY/CH 617
Technician training: Basic principles applied radiation physics NY/PH 599
Technician training: Basic radiation detection equipment for undergraduate physics instruction IN/PH 241
Technician training: Biochemistry cell physiology laboratory for Graduates and Pre-professionals AR/IN 34
Technician training: Biochemistry laboratory emphasizing current research techniques CA/CH 56
Technician training: Chemical instrumentation for medical technology students VA/CH 898
Technician training: Computer simulated sampling game for study of quality control OK/EN 715
Technician training: Demonstration and laboratory equipment for acoustics and electronics WI/PH 944
Technician training: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Technician training: Educational system utilizing water management modules NY/EN 623
Technician training: Electron microscopy technician training program NY/IN 589
Technician training: Electronic distance meter used to teach basic surveying SC/EN 806
Technician training: Electronic measurements for scientists GA/PH 175
Technician training: Energy awareness in engineering physics PA/PH 771
Technician training: Environmental engineering laboratory for civil engineering students VA/EN 895
Technician training: Environmental engineering technology laboratory for four-year city college CO/EN 118
Technician training: Environmental plant growth control for students of technical agriculture MN/BZ 459
Technician training: Equipment enhancement of general and organic chemistry courses AL/CH 8
Technician training: Equipment for forensic science laboratory CT/ZZ 139
Technician training: Equipment for laboratories in aquatic ecology NY/BZ 607
Technician training: Equipment for upper division undergraduate applied chemical laboratory work OR/CH 744
Technician training: Establishment of calibration standards for electronic test equipment CA/EN 43
Technician training: Experimental psychology laboratory training program TX/PS 879
Technician training: Fluid mechanics laboratory on open channel flow OR/EN 733
Technician training: Fluid power systems laboratory equipment for technology students MI/EN 401
Technician training: Geology thin-sectioning laboratory equipment for four-year college MA/EZ 382
Technician training: Graphic terminal for instruction in cartographic and mapping techniques KY/EZ 329
Technician training: Health physics laboratory equipment purchase TN/PH 824
Technician training: High pressure liquid chromatography teaching tool for undergraduate chemistry IN/CH 263
Technician training: Human anatomy and introductory biology for two-year allied health LA/BZ 333
Technician training: Human body physics laboratory for health sciences students IL/PH 201
Technician training: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Technician training: Improved facilities for upper division microbiology courses AZ/BZ 21
Technician training: Improvement in statistics instruction using calculators NY/MA 621
Technician training: Improvement of laboratory experiences in electronics and electromechanical technology OK/EN 721
Technician training: Improving scientific competency for students in allied chemical fields CT/CH 133
Technician training: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Technician training: Instructional equipment for human anatomy and physiology AL/BZ 11
Technician training: Instructional equipment for Kirkwood's activated sludge training program IA/ZZ 283
Technician training: Instrumental analysis capabilities improvement for undergraduates KY/CH 316
Technician training: Instrumentation for upper division chemistry laboratories CA/CH 50
Technician training: Instrumentation laboratory in two year college MA/PH 377
Technician training: Integrated mini-micro learning center NE/CS 502
Technician training: Interdisciplinary program in powder X-ray diffraction IL/EZ 236
Technician training: Interdisciplinary undergraduate modular electrical and physical measurements laboratory ME/PH 352
Technician training: Introduction to computer maintenance for electronic technicians AR/CS 35
Technician training: Introduction to pulse circuits SC/EN 803
Technician training: Lab curricula in estuarine ecology, limnology and comparative physiology NY/BZ 563
Technician training: Laboratory assisted biology and chemistry for two-year college NC/IN 638
Technician training: Laboratory instrumentation for health science chemistry OK/CH 710
Technician training: Laboratory simulation of electric power transmission systems TN/EN 822
Technician training: Lecture vitalization using LAP-dissolve projection NY/CH 590
Technician training: Lock decoupler accessory for NMR in chemistry labs KY/CH 326
Technician training: Low cost microcomputer controllers, use, and applications CA/EN 97
Technician training: Mass spectrometer and NMR for undergraduate chemistry laboratories KY/CH 320
Technician training: Mathematics for students in the allied health technologies VA/MA 910
Technician training: Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation KY/BZ 315
Technician training: Microprocessor equipment for a two-year engineering technology program NJ/EN 517
Technician training: Microprocessors and microcomputers in undergraduate education UT/PH 883
Technician training: Modern measurement techniques for undergraduate sensory psychology laboratory MA/PS 383
Technician training: Nuclear magnetic resonance spectrometer procurement for course improvement GA/CH 174
Technician training: Nuclear magnetic resonance spectroscopy NM/CH 546
Technician training: Perceptual laboratory for technical students NY/PS 588
Technician training: Physiological and pharmacological laboratory additions to biopsychology core courses DC/PS 147
Technician training: Practical electronic technology laboratory for undergraduate college students MI/IN 423
Technician training: Principles of biomedical electronic instrumentation NY/PH 598
Technician training: Purchase computing equipment for Wanakena campus NY/ZZ 611
Technician training: Scanning electron microscopy for undergraduate training OH/BZ 699
Technician training: Science laboratory project in support of community research needs CA/BZ 66
Technician training: Scientific equipment for licensed practical nursing program AK/BZ 20
Technician training: Scientific exploration equipment for undergraduate geophysics instruction HI/EZ 189
Technician training: Simultaneous recording of three physiological parameters in vertebrates NY/BZ 576
Technician training: Solid state physics laboratory for seniors CA/PH 55
Technician training: Steam power laboratory for technology and engineering OK/EN 717
Technician training: Swept frequency microwave measurements and measurement of frequency spectrum CA/EN 78
Technician training: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Technician training: Undergraduate communication, electroacoustic, and environmental noise control laboratory ME/EN 351
Technician training: Undergraduate involvement with biological instrumentation OR/BZ 731
Technician training: Undergraduate oceanographic curriculum rice university TX/EZ 845

Technician training: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Technician training: Update of holographic laboratory equipment for engineering technology students WI/PH 939
Technician training: Upgrading lab facilities for neuroscience instruction OH/PS 688
Technician training: Upgrading quantitative analysis, instrumental analysis and research MS/CH 465
Technician training: Video techniques for qualitative analysis for undergraduate social sciences IL/SZ 200
Technician training: Videotapes and worksheets for alternative remedial instruction in chemistry CA/CH 72
Technician training: X-ray diffraction unit for geology, physics, and chemistry WI/IN 951
Technicians architectural computer graphics WI/ZZ 938
Technicians electronic computer maintenance AR/CS 35
Technician: Videotapes and worksheets for alternative remedial instruction in chemistry CA/CH 72
Technico microcomputers TK-2-18K TX/CS 864
Technico Super Starter microcomputer TEC9900-SSU NY/CH 583
Technicolor super 8 film loop projector 820Z IN/ZZ 251
Technicolor 820Z filmloop projector SC/BZ 809
Technics Hummer I sputter coater MI/BZ 404
Technique modules: Modular materials that assist biology students in investigation IL/BZ 235
Techniques for studying the Lake Michigan biota and environment IL/BZ 209
Techniques in experimental cell biology for undergraduate biology majors AL/BZ 3
Technologies health mathematics VA/MA 910
Technologists medical AL/CH 10
Technologists medical undergraduate training chemistry AL/CH 10
Technology electronic laboratory MI/IN 423
Technology engineering holographic laboratory equipment WI/PH 939
Technology engineering instrumentation PA/EN 776
Technology engineering steam power laboratory OK/EN 717
Technology laboratory electronics TX/PH 842
Technology laboratory food engineering KS/EN 300
Technology materials physics OH/PH 681
Technology medical chemical instrumentation VA/CH 898
Technology microprocessor interfacing teaching VT/EN 891
Technology program engineering microprocessor equipment NJ/EN 517
Technology students fluid power systems laboratory MI/EN 401
Technovate basic hydrology experiment S12 VA/EN 902
Technovate Corp. mechanical loading system 9042 RI/EN 793
Technovate Corp. mechanics of materials system 9014 RI/EN 793
Technovate Corp. polariscope 9015 RI/EN 793
Technovate Corp. structures test system 9004 RI/EN 793
Technovate Corp. torsion test system 9041 RI/EN 793
Technovate fluid circuit analog 9012 VA/EN 902
Technovate properties of fluids and hydrostatics 9092 VA/EN 902
Techtron dual cassette tape drive 8420 VA/SZ 900
Tecquipment experimental setups, miniaturized IL/EN 203
Tecquipment flow channel, IL/EN 203
Tecquipment Incorp. elastic beam apparatus HST-6 RI/EN 793
Tecquipment Incorp. strut apparatus SM-5 RI/EN 793
Tectronix oscilloscope AL/CH 18
Tekmar strip chart recorder 355 OH/BZ 696
Tekmar Tissumizer ND/CH 654
Tektronic 5L4N spectrum analyzer GA/PH 183
Tektronix autoerase storage oscilloscope with camera NY/BZ 549
Tektronix BASIC Plot 50 statistics library NY/BZ 558
Tektronix bistable storage oscilloscope 5111 AZ/EN 25
Tektronix C-5 oscilloscope camera GA/PH 183
Tektronix DC 504 counter timer OK/EN 721
Tektronix desk top graphic computing system 4051 OH/PH 678
Tektronix digital multimeter FL/EN 168
Tektronix digital multimeter DM501 TX/PH 842
Tektronix digital multimeter DM507 TX/PH 842
Tektronix digital plotter NH/EN 513
Tektronix DM 502 digital multimeter OK/EN 721
Tektronix dual beam storage oscilloscope MD/BZ 365
Tektronix dual channel storage oscilloscope 5115 PA/PS 760
Tektronix dual trace oscilloscope T935 SC/EN 803
Tektronix electrostatic printer plotter 4610 TX/EN 851
Tektronix FG 503 function generator OK/EN 721
Tektronix frequency counter DC503 TX/PH 842
Tektronix frequency counter DC-502 VA/EN 909
Tektronix function generator FG503 TX/PH 842
Tektronix function generator FG504 VA/EN 909
Tektronix graphic computer terminal 4012 MA/CH 389
Tektronix graphic tablet 4954 OH/BZ 666
Tektronix graphic terminal KY/EZ 329
Tektronix graphic terminal 4010 OH/BZ 666
Tektronix graphic terminals OR/EN 732
Tektronix graphics computer terminal 4006-1 AL/MA 6
Tektronix graphics computer 4051 ND/CH 656
Tektronix graphics plotter 4662 UT/PH 883
Tektronix graphics system 4051 OH/CS 697
Tektronix graphics terminal OK/IN 722
Tektronix graphics terminal 4010-1 MD/MA 357 OH/PH 674 VA/EN 894
Tektronix graphics terminal 4012 OR/PH 742
Tektronix graphics terminal 4013 TX/EN 851
Tektronix graphics terminals 4006 with hard copy NY/MA 622
Tektronix hard copy unit KY/EZ 329
Tektronix hardcopy unit 4631 AL/MA 6
Tektronix Inc. graphic computer 4051 option 20 OR/IN 748
Tektronix Inc. hard copy printer 4610 OR/IN 748
Tektronix Inc. microprocessor lab model 8002 CA/EN 97
Tektronix Inc. portable patient monitor 414 Opt 04 IL/EN 234
Tektronix logic analyzer 7D01 OR/EN 740
Tektronix mainframe oscilloscope 7603 MO/EN 483
Tektronix multimeter DM502 VA/EN 909
Tektronix oscilloscope NM/BZ 540
Tektronix oscilloscope camera C5A KY/EN 322
Tektronix oscilloscope SC502 TX/PH 842
Tektronix oscilloscope T922 KS/EN 303 KS/EN 304 KY/EN 322 VA/CS 913
Tektronix oscilloscope T932 MN/CS 451
Tektronix oscilloscope T-922 GA/PH 175
Tektronix oscilloscope 5000 CO/PH 110
Tektronix oscilloscope 5400 OR/EN 740
Tektronix oscilloscope 7603 WI/PH 944
Tektronix oscilloscopes FL/IN 167
Tektronix PG 028 voltage probe OK/EN 721
Tektronix PLOT 10 software IN/EN 269
Tektronix plug-in logic analyzer 7D01F MO/EN 483
Tektronix power supply P5503A VA/EN 909
Tektronix PS 503A triple power supply OK/EN 721
Tektronix pulse counter FL/EN 168
Tektronix radiometer photometer with probes J16 TN/PH 823
Tektronix recording oscilloscope 5115 NY/EN 603
Tektronix scope 475 VA/EN 909
Tektronix single channel oscilloscope 5110, 5B10N, 5A20N NJ/BZ 530
Tektronix spectrum analyzer NC/PS 636
Tektronix spectrum analyzer 7613 OR/EN 740
Tektronix storage oscilloscope T912 SC/EN 803
Tektronix terminal 4006-1 MS/EN 464
Tektronix terminal 4010 with cassette tape TX/EN 865
Tektronix test set TM-500 CO/PH 110
Tektronix TLCT71 curve tracer CA/EN 88
Tektronix TM 504 power module OK/EN 721
Tektronix T922 dual-trace oscilloscope CT/CH 141
Tektronix T922 oscilloscopes CA/PH 77
Tektronix T932 oscilloscopes NY/PH 598
Tektronix 31 programmable calculator KS/ZZ 302
Tektronix 4 trace oscilloscope 5103 IL/BZ 215
Tektronix 4006 graphics terminal FL/PH 154
Tektronix 4006-1 computer display terminal KS/CH 294
Tektronix 4006-1 graphics terminal CA/CS 102 GA/IN 176
Tektronix 4010 computer display terminal OR/IN 738 OR/SZ 737
Tektronix 4010-1 graphics computer terminal IL/IN 213
Tektronix 4013 graphic display terminal CO/EN 121
Tektronix 4014-1 graphics terminal KS/BZ 301
Tektronix 4025 graphics terminal MI/MA 418
Tektronix 4051 BASIC graphic computer terminal option 21 NY/BZ 558
Tektronix 4051 graphics computing system MI/MA 418
Tektronix 4051 graphics minicomputer and 4662 plotter IL/PH 219
Tektronix 4631 hard copy unit CA/CS 102 KS/CH 294 MN/EN 454
Tektronix 4631 hardcopier MI/MA 418
Tektronix 465 oscilloscope NY/EN 628
Tektronix 4662 digital plotter CO/EN 121 MI/MA 418
Tektronix 4662 interactive digital plotter OR/SZ 737
Tektronix 4662 plotter IN/EN 269
Tektronix 4923 cartridge tape recorder MN/EN 454
Tektronix 4952 joystick OH/CS 697
Tektronix 4953 graphic tablet MN/EN 454
Tektronix 5A20N differential amplifiers MI/PH 429
Tektronix 5B10N time base MI/PH 429
Tektronix 5000 storage oscilloscopes IA/BZ 277
Tektronix 5111 storage oscilloscope MI/PH 429
Tektronix 5113 dual beam storage oscilloscope ME/BZ 348 ND/BZ 655
Tektronix 604 monitor CT/PS 134
Tektronix 7D01 logic analyzer with DF-1 formatter KY/EN 327
Tektronix 7001F logic analyzer with formatter MO/EN 486
Tektronix 8002 microcomputer development station CO/EN 125
Tektronix 8002 microcomputer development system TX/CS 847
Telecomputer terminal Digi-Log WI/ZZ 943
Telephone cable connections RAM OH/CH 673
Teleprinter high speed Superterm Intertec WA/SZ 923
Teleprinter TI MI/EN 426
Teleray CRT computer terminals with APL IL/IN 213
Teleray CRT terminal 3541 MI/MA 433
Telescope Astrola Cave Optical SD/PH 811
Telescope Celestron International IL/IN 229
Telescope Criterion SD/PH 811
Telescope Criterion Dynamax MS/IN 461
Telescope laboratory for introductory astronomy for mostly non-science majors GA/PH 177
Telescope photometric photometer system Pacific NJ/PH 518
Telescope Rand Instrument Corp. GA/PH 186

Telescopes Schmitz Cassegrain Celestron International portable GA/PH 177
Telescopically mounted camera Polaroid IL/IN 229
Teletype NJ/IN 534
Teletype Corp. AJR 33 MS/PS 469
Teletype model ASP-33 CA/CS 105
Teletype printer K and E IL/EZ 220 IL/EZ 221
Teletype printing terminal 43 OR/PH 742
Teletype terminal MA/EN 392
Teletype terminal ASR 33 VT/EN 891
Teletype terminal 43 TX/CS 864
Teletype terminals DECWriter Digital Equipment Corp. NY/MA 622
Teletype Tracor Northern KS/PH 298
Teletype 43 terminal MI/IN 408
Teletype, Data General FL/MA 171
Television and computer graphics assisted freshman chemistry MI/CH 430
Television college microbiology OH/BZ 700
Television programs optical mineralogy NY/EZ 551
Television projection system Advent MI/MA 418
Television projector General Electric IN/CS 245
Television viewer microscope Nikon NJ/ZZ 528
Television: Video techniques for qualitative analysis for undergraduate social sciences IL/SZ 200
Telluric current measurements: Revision of instruction and instrumentation in geophysics CA/EZ 51
Telluric current unit Geotell CA/EZ 51
Telray terminals 3931 with APL character set MD/MA 357
Temperature chart recorder waterproof Ryan CA/BZ 82
Temperature controller digital Perkin Elmer FL/ZZ 161
Temperature control: Laboratory equipment for integrated junior and senior chemistry laboratory MN/CH 441
Temperature humidity chamber Sherer MI/BZ 415
Temperature meter Yellow Springs CA/BZ 68
Temperature salinity depth recorder Martek TX/EZ 845
Temperature variable accessory Perkin Elmer CO/CH 108
Temperature: Mechanical properties of plastics laboratory CA/EN 53
Temp-Trol 74944 kinematic viscosity bath IL/CH 202
Tensiometer Fisher NH/PH 508
Tensiometer surface Fisher KS/EN 300
Ten-week introductory laboratory and technician training in biochemistry AL/IN 16
Terak graphics computer system 8510/a WI/EN 947
Terminal addressable computer DIGILOG WA/MA 916
Terminal BASIC graphic computer Tektronix NY/BZ 558
Terminal computer Carousel projector interface OH/PH 674
Terminal computer DECWriter IN/ZZ 251 PA/EN 769
Terminal computer DecWriter Digital Equipment TN/PH 824
Terminal computer DECWriter Digital Equipment Corp. WA/BZ 920
Terminal computer Diablo microprocessor IA/MA 274
Terminal computer display Tektronix KS/CH 294 OR/IN 738 OR/SZ 737
Terminal computer Lear Siegler LA/BZ 337 MN/CH 449
Terminal computer NCR 265 portable APL/ASCII AL/MA 6
Terminal computer SOL-20 NY/PS 600
Terminal computer SOROC Technology CO/CS 112
Terminal Computer SOROC Technology TN/MA 829
Terminal CRT Ann Arbor WA/SZ 923
Terminal CRT computer Beehive IA/MA 274
Terminal CRT computer Perkin Elmer WA/BZ 920
Terminal CRT Datamedia 1520 CA/CS 105
Terminal CRT Infoton TX/EN 876
Terminal CRT Lear Siegler Inc. TX/CS 864
Terminal CRT Mits Inc. VT/EN 891
Terminal CRT SOROC TN/SZ 828
Terminal CRT Teleray MI/MA 433
Terminal Datamedia CA/SZ 92
Terminal Datamedia Elite CA/SZ 93
Terminal DECWriter GA/IN 176 MI/CS 417
Terminal DECWriter Digital Equipment NY/EN 557
Terminal DECWriter Digital Equipment corp. KS/ZZ 299
Terminal DecWriter Digital Equipment Corp. MI/PS 402
Terminal Diablo NJ/CH 533
Terminal Digital Equipment CT/PS 134
Terminal Digital Equipment Corp. CA/EN 84
Terminal display Lear Seigler OR/PH 742
Terminal dumb Lear Siegler TX/PS 860
Terminal Economy VA/CS 914
Terminal graphic cartographic mapping KY/EZ 329
Terminal graphic computer Tektronix MA/CH 389
Terminal graphic display tektronix CO/EN 121
Terminal graphic Tektronix KY/EZ 329 OH/BZ 666
Terminal graphics Anderson Jacobson MI/MA 433
Terminal graphics computer NY/PH 560
Terminal graphics computer Tektronix IL/IN 213
Terminal graphics computer 4006-1 Tektronix AL/MA 6
Terminal graphics DEC PA/CH 783
Terminal graphics Digital Equipment OH/CH 683
Terminal graphics Digital Equipment Corp. WI/ZZ 938
Terminal graphics Hewlett Packard CA/CH 94
Terminal graphics Tektronix CA/CS 102 FL/PH 154 GA/IN 176 KS/BZ 301 MD/MA 357 MI/MA 418 OH/PH 674 OK/IN 722 OR/PH 742 TX/EN 851 VA/EN 894
Terminal hard copy Diablo OH/EZ 693
Terminal hard copy Digital DECWriter VA/EN 894
Terminal hardcopy DecWriter TN/SZ 828
Terminal hard-copy Digital Equipment Corp. CO/CS 112
Terminal Heathkit UT/PH 883
Terminal kits graphic Intercolor TX/PS 860
Terminal KSR external sync Ann Arbor terminals AL/PS 17
Terminal LA36 computer Digital Equipment Corp. AL/CS 12
Terminal LA36 Digital Equipment computer APL/ASCII AL/MA 6
Terminal Lear Seigler GA/IN 176
Terminal Lear Siegler PA/EN 757
Terminal Ontel CT/MA 145
Terminal Perkin Elmer CA/EN 97
Terminal PLATO IL/EN 231
Terminal portable computer Execuport APL IA/MA 274
Terminal portable data Texas Instruments AL/CS 12
Terminal portable Texas Instruments VA/EN 894
Terminal printer Centronics CO/EN 121
Terminal printer DECWriter IL/CH 227
Terminal printer Diablo Data Dimensions NY/BZ 562
Terminal printing Teletype OR/PH 742
Terminal system computer WA/SZ 923
Terminal Tektronix MS/EN 464 TX/EN 865
Terminal Telecomputer Digi-Log WI/ZZ 943
Terminal teletype MA/EN 392 MI/IN 408
Terminal Teletype TX/CS 864 VT/EN 891
Terminal Texas Instruments MI/MA 433
Terminal video Digital Equipment Corp. PA/PS 784
Terminal video display Lear Siegler Inc. NC/EN 645
Terminals alphanumeric Fox FL/PS 165
Terminals Ann Arbor KSR terminal external sync AL/PS 17
Terminals cathode ray KS/SZ 311
Terminals computer APL DECWriter IL/IN 213
Terminals computer Datamedia Elite NJ/IN 525
Terminals computer DECWriter APL NJ/IN 525
Terminals computer instructional purposes VA/CS 912
Terminals computer interface equipment IL/IN 213
Terminals computer Lear Siegler KY/PS 321
Terminals computer physics laboratory LA/PH 343
Terminals computer undergraduate instruction NJ/IN 525
Terminals CRT Applied Digital Data Systems CA/IN 42 NY/MA 622
Terminals CRT Digital Equipment Corp. CA/IN 42
Terminals CRT Infoton IN/EN 266
Terminals CRT Lear Siegler Co. WY/BZ 954
Terminals DECWriter Digital Equipment Corp. MD/MA 357
Terminals DECWriter teletype Digital Equipment Corp. NY/MA 622
Terminals graphic Tektronix OR/EN 732
Terminals graphics Hewlett Packard CA/IN 42
Terminals graphics Tektronix hard copy NY/MA 622
Terminals Lear Siegler LA/PH 343
Terminals printer DECWriter MA/MA 369
Terminals Teleray CRT computer APL IL/IN 213
Terminals Telray APL character set MD/MA 357
Test chamber animal Coulbourn Instruments TN/PS 834
Test generation computer precalculus IA/MA 274
Test instrument ultrasonic Magnaflux IN/EN 268
Test outfit soil Lamotte AZ/EZ 27
Test scorer computer interface 3-M MI/MA 433
Test set Tektronix CO/PH 110
Test system ADAM E and L LA/CH 335
Tester grain moisture Motomco portable IN/ZZ 251
Tester gyro De Laval KS/EN 300
Tester magnetic particle Magnaflux IN/EN 268
Testing computer-based remedial physics course NY/PH 550
Testing device isokinetic strength Lumex Inc. AZ/BZ 32
Testing laboratory materials RI/EN 793
Testing materials ultrasonic, magnetic-particle, penetrant, radiographic IN/EN 268
Testing studio model architectural structures PA/EN 775
Tests of sensory function: Modern measurement techniques for undergraduate sensory psychology laboratory MA/PS 383
Texas Instrument printer model 810 CA/EN 97
Texas Instrument printer PC-100 for programmable calculator VT/CS 888
Texas Instrument programmable calculator SR-52 VT/CS 888
Texas Instruments ASCII keyboard Silent terminal TX/IN 862
Texas Instruments calculators TI59 WY/BZ 954
Texas Instruments full duplex EIA communications interface module 961642-001 TX/IN 862
Texas Instruments PAM/D compiler 967582 for TI minicomputer 960 TX/IN 862
Texas Instruments PAM/D monitor builder package 942872 TX/IN 862
Texas Instruments portable data terminal AL/CS 12
Texas Instruments programmable calculator and printer TI-58 IA/MA 271
Texas Instruments programmable calculators NC/MA 641
Texas Instruments programmable calculators printer KS/SZ 311
Texas Instruments programmable calculators TI 58 MT/MA 493
Texas Instruments SAL/D compiler 963816 TX/IN 862
Texas Instruments Silent 700 portable terminal VA/EN 894
Texas Instruments Silent 700 terminal MI/MA 433

Texas Instruments SR-60 programmable calculator NC/PS 640
Texas Instruments Worden gravity meter prospector standard model KY/EZ 330
Texas Instruments 745 portable data terminal AL/CS 12
Textile science spectroscopy colorimetry laboratory KS/ZZ 302
Texts and labs for minicourses in electronics for scientists IA/PH 284
The Nucleus radioactive experiment 500 TX/PH 846
Thelco CO_2 incubator MA/BZ 399
Thelco oven 28 NE/BZ 499
Thematic approach to undergraduate social science curriculum VA/SZ 906
Thematic maps computer assisted introduction TN/EZ 830
Theodolite pilot balloon WA/ZZ 921
Theoretical physical chemistry laboratory CA/CH 94
Theory tornado flow IA/IN 278
Therapeutic exercise laboratory experiences MA/ZZ 370
Thermal biofeedback digital thermometer Cyborg LA/PS 339
Thermal fluids laboratory sequence VA/EN 903
Thermal measurement system Dynatch KS/EN 300
Thermal properties: Food engineering technology laboratory for four year program KS/EN 300
Thermo Systems air velocity meter 1650 MO/ZZ 482
Thermocouple gauge controls Veeco Instruments GA/PH 181
Thermocouple psychrometer Wescor HR33T and accessories CT/BZ 138
Thermodynamaics education phase diagrams IA/EN 279
Thermodynamics kinetics computer assisted MN/CH 449
Thermodynamics: Computer-based PLATO instruction in chemical engineering IL/EN 231
Thermodynamics: Energy awareness in engineering physics PA/PH 771
Thermodynamics: Theoretical physical chemistry laboratory CA/CH 94
Thermodynamics: Thermal fluids laboratory sequence VA/EN 903
Thermoelectric cooling module Herbach Rademan NM/BZ 540
Thermoelectric energy: Solar cell and Schottky diode fabrication, thermoelectricity lab experiments NY/EN 575
Thermoelectricity lab experiments NY/EN 575
Thermofax transparency maker 3M AL/MA 6
Thermoluminescence dosimetry system NY/PH 592
Thermoluminescent dosimetry environmental radiation IN/PH 242
Thermolyne Dri-Bath small specimen incubators MA/BZ 386
Thermometer digital thermal biofeedback Cyborg LA/PS 339
Thermometer infrared Barnes Instatherm CO/PH 123
Thermometer portable electronic Atkins AZ/EZ 27
Thermometer protected Wildco SC/IN 808
Thermometer reversing Wildco SC/IN 808
Thermometer: Medical electronic instrumentation for pre-medical students TN/PH 820
Thermomix shaking water bath Braun KS/CH 297
Thick film hybrid circuit laboratory PA/EN 761
Thin layer chromatography: Slide-tape assisted self-paced biochemistry laboratory for undergraduate women MA/BZ 381
Thin section grinder Hillquist MA/EZ 382
Thin section machine Hillquist MA/EZ 382
Three-channel Maxwellian View optical stimulator for color vision MA/PS 383
Threshold kit Marietta Co. NY/PS 588
Thyristors: Electromechanical energy conversion for the eighties NY/EN 591
TI LPM multipoint recorder system KS/EN 300
TI 745 teleprinter MI/EN 426
Time analysis nuclear detection laboratory GA/EN 179
Time base generator MFE X-Y recorder AR/PH 40
Time base Tektronix MI/PH 429
Time domain behavior circuits teaching OR/EN 740
Time lapse movies: Interactive computer graphics for simulating construction field operations CA/EN 84
Time motion projector Lafayette MO/ZZ 482
Time sharing: Computer managed laboratories for four cognitive physchology courses FL/PS 165
Timelapse camera CA/EN 83
Timelapse photography: Interactive computer graphics for simulation of large construction operations CA/EN 83
Timelapse projector CA/EN 83
Timer counter Hunter NC/PS 636
Timer counter Pasco PA/PH 785
Timer counter Tektronix OK/EN 721
Timers counter Ealing linear air track SD/PH 819
Timers, power supplies counter, Pasco TX/PH 849
Timesharing computing forest science instruction WI/ZZ 941
Time-event physiograph Narco Biosystems NY/BZ 576
Time-shared microprocessor laboratory for electrical and computer engineering majors TX/EN 876
Timing analyzer ORTEC MN/PH 436
Tissue culture facility biological sciences OK/BZ 718
Tissue culture incubation Castle NC/BZ 639
Tissue culture incubator carbon dioxide LabLine OK/BZ 718
Tissue culture: Innovative experimental design course and projects in renovated laboratories MA/BZ 399
Tissue homogenizer Fisher PA/ZZ 766
Tissue homogenizer Virtis OR/BZ 731
Tissue processing: Project type experiments emphasizing molecular biochemistry for pre-professional students ND/CH 654
Tissue slides human Turtox IN/BZ 247
Tissues organisms genetics constant-environment chambers MN/BZ 439
Tissumizer homogenizer MO/IN 480
Tissumizer Tekmar ND/CH 654
Titrator automatic AL/CH 5
Titrator chloride radiometer NM/BZ 540
TLD reader TLR-5 Eberline Instrument Co. MO/PH 479
TLD system Harshaw Co. IN/PH 242
TLR-5 TLD reader Eberline Instrument Co. MO/PH 479
To a research CA/SZ 91
Tone burst generator, custom built TX/EN 852
Tools Moto-Flex Cole Parmer PA/PS 755
Tooth patterns in primates: Human skeletons and hominid fiberglass casts for physical anthropology TX/SZ 850
Tops overhead projector Cenco AL/CH 8
Tornado flow theory IA/IN 278
Toronto University CAN system courseware MA/MA 369
Torsion test system Technovate Corp. RI/EN 793
Torso model human Turtox IN/BZ 247
Torso model human Wards MS/BZ 471
Total solids meter Scientific Products Inc. VA/CH 898
Tower cooling Marley Co. OK/EN 717
Towing carriage, custom built TX/EN 852
Toxic substances control: Economics of undergraduate laboratory instruction OH/CH 664
Toxichron drug analyzer system IN/ZZ 255
Toxicology: Endocrine glands workshop and research laboratory SD/BZ 818
Toxicology: Physiological and pharmacological laboratory additions to biopsychology core courses DC/PS 147
Toxicology: Specialized microbiology subcourse for undergraduates MA/BZ 379
Toxinology: Specialized microbiology subcourse for undergraduates MA/BZ 379
Toy parts Fischer Technik IN/EN 254
Trace analysis: Educating pharmacy students about drug analysis in biological fluids VA/CH 907
Trace analysis: Electron capture gas chromatography to outfit environmental chemistry laboratory NY/IN 578
Trace analysis: Laboratory Courses in Modern Analytical and Physical Chemistry PA/CH 782
Trace OS245A dual Gould Inc. IL/PH 210
Track linear air Ealing SD/PH 819
Tracor Northern A SR-33 teletype N-1102 KS/PH 298
Tracor Northern multichannel analyzer TN-1705 MI/PH 416
Tracor Northern 1024 channel puls height analyzer TN-1705 KS/PH 298
Tracor Northern 1024-channel pulse height analyzer TN-1705 MN/PH 436
Tracoustics RE-140B sound-treated chamber MI/PS 414
Trailer boat Murray FL/IN 153
Trainer Heath AR/PH 36
Trainer logic Hickok AR/CS 35
Trainer memory Hickok AR/CS 35
Trainer portable hydraulics Sperry Vickers MI/EN 401
Trainers microprocessor KIM IA/PH 284
Training technician biochemistry introductory laboratory AL/IN 16
Training undergraduate science majors in science reporting NY/IN 602
Tranducers Hewlett Packard CO/EN 126
Transducer Biocom force Gilson WA/BZ 922
Transducer blood pressure Millar Instruments IL/EN 234
Transducer coupling: Microprocessor based interdisciplinary laboratory CO/EN 111
Transducer current air Foxboro Co. MO/EN 488
Transducer pressure Narco Biosystems NE/BZ 495
Transducer pressure Statham WA/BZ 922
Transducers biomedical laboratory engineers IL/EN 234
Transducers ultrasonic Automation Industries OH/PH 684
Transducers: Senior laboratory in applied acoustics measurements with minicomputer assistance IL/PH 219
Transfer hood microbiological Scientific Products AZ/BZ 21
Transformer protection: Laboratory simulation of electric power transmission systems TN/EN 822
Transformer 31-35-40 NY/BZ 609
Transistor trainer Heathkit PA/PH 773
Transit Lietz CA/SZ 104
Transmission electric power laboratory simulation TN/EN 822
Transmission electron microscopy: Scanning electron microscopy and associated equipment for biologists MI/BZ 404
Transmission line protection: Laboratory simulation of electric power transmission systems TN/EN 822
Transmission system electric power Lab-Volt NC/EN 645
Transmitted fluorescent microscope Zeiss WI/BZ 952
Transparencies statistics Lansford Publishing Co. OH/MA 694
Transparency maker Thermofax 3M AL/MA 6
Transport phenomena in acoustics, plasmas, and condensed matter GA/PH 181
Transport processes laboratory for undergraduate engineers NY/EN 603
Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Transportation component technology society course NJ/EN 524

Transportation engineering materials laboratory TN/EN 826
Trasco polar planimeter 62 0002 VA/IN 901
Travel recreation wilderness computer modeling ID/ZZ 195
Trawl balloon Marinovich MD/BZ 359
Trawl Sterling sampling Otter FL/BZ 158
Treatment: Engineering design learned using computers and micro= processor simulated plants IN/EN 264
Trickling filter microtower B. F. Goodrich PA/EN 776
Trigonometry algebra college NE/MA 503
Trigonometry algebra college minicourses IN/MA 249
Triocular head 31-18-79 NY/BZ 609
Tri-Carb spectrometer Packard MN/BZ 438
Tri-Simplex micro projector Bausch Lomb NY/BZ 571
True RMS meter MA/EN 398
Trustification: Economic history from periods of structural economic change VA/SZ 892
TTL integrated circuits instructors package FL/EN 168
Tube teaching wild pointer MA/ZZ 391
Tubes x-ray copper chromium Phillips WI/IN 951
Tungsten halogen fluorescence lamphouse 31-32-61 NY/BZ 609
Tunnel wind Aerolab IA/EN 280
Tunnel wind Laybold AR/IN 37
Turbidity studies: Marine science fluorometric determination of chlorophyll and water movement NY/ZZ 573
Turbine gas Cussons two shaft OK/EN 730
Turbine gas digital data acquisition system OK/EN 730
Turbine pump C.A.A. IA/EN 280
Turbine steam Coppus Engineering OK/EN 717
Turner filter fluorimeter 110 NJ/CH 526
Turner fluorimeter 110 VA/CH 907
Turner fluorometer CA/ZZ 59
Turner fluorometer III NY/BZ 607
Turner fluorometer 110 DC/PS 147 NY/BZ 566
Turner fluorometer 111-003 and recorder NY/ZZ 573
Turner model 330 single beam spectrophotometer CA/CH 56
Turntable air bearing Fisher Stansi SD/PH 819
Turtox assorted skeletal materials IN/BZ 247
Turtox human pregnancy models TMB-14 MS/BZ 471
Turtox human tissue slides IN/BZ 247
Turtox human torso model IN/BZ 247
Tutorial programs computer physics KY/PH 314
Tutorials: Adaptive evaluation structure for computer based instruc= tion IA/SZ 292
Tutorial, remedial, augmented self paced audiovisual instruction mathematics AL/MA 9
Tutoring: Interactive timesharing computing environment for forest science instruction WI/ZZ 941
TV camera color Sony OK/EN 714
TV color camera chromavue Magnavox MA/ZZ 391
TV color monitors Magnavox MA/ZZ 391
TV computer graphics in large lecture classes WI/ZZ 943
TV displays computer generated instruction WA/MA 916
TV monitor for Zeiss microscope TX/EZ 845
TV monitor RCA TN/CH 833
TV monitors LA/BZ 341
TV monitors Sony DC/BZ 149
TV sets color RCA CO/EN 113
TV sets Panasonic OH/BZ 690
TV stand A. V. Educational Systems Inc. OH/PS 688
TV tapes for engineering properties of materials courses CO/EN 113
Two-year college: Equipment enhancement of general and organic chemistry courses AL/CH 8
Ultracentrifugation methodologies endocrinology, physiology, virology KY/BZ 315
Ultracentrifuge Beckman CA/IN 95 KY/BZ 315 PA/BZ 750
Ultracentrifuge purchase for molecular biology lecture and laboratory course PA/BZ 750
Ultrafiltration: Food engineering technology laboratory for four year program KS/EN 300
Ultramicrotome Sorvall MI/BZ 404
Ultrasonic doppler Monitor Metrix Inc. Echo Flow MI/PH 416
Ultrasonic echo apparatus Metrix Inc. Echo Trace MI/PH 416
Ultrasonic pulser receiver Panametrics OH/PH 678
Ultrasonic test instrument Magnaflux IN/EN 268
Ultrasonic transducers Automation Industries OH/PH 684
Ultrasonics: Engineering physics equipment and interfacing with microcomputers OH/PH 678
Ultrasonic, materials testing IN/EN 268
Ultrasound Doppler: PLATO lesson modules for biomedical instru= mentation IL/EN 233
Ultraviolet infrared, visible, spectrophotometers TN/CH 821
Ultraviolet Products Inc. EPROM eraser UVS-11E VT/EN 891
Ultraviolet spectrometry: Addition of mass spectrometry to a spec= trometric analysis course OR/CH 741
Ultraviolet visible spectrophotometer Perkin Elmer TN/CH 821
Ultraviolet, spectrophotometer Cary Varian GA/CH 182
Undergraduate archeology laboratory program CA/SZ 104
Undergraduate chemistry: Nuclear magnetic resonance spectroscopy NM/CH 546
Undergraduate communication, electroacoustic, and environmental noise control laboratory ME/EN 351
Undergraduate equipment grant for interdisciplinary biochemistry course NY/IN 580
Undergraduate experience using modern instrumental techniques in molecular biology IN/BZ 243
Undergraduate health physics degree program MO/PH 479
Undergraduate instruction computer design personal minicomputers AL/EN 4
Undergraduate instruction in photogeology CA/EZ 87
Undergraduate instructional equipment for electrical engineering and computer science MO/EN 486
Undergraduate instruction/research in behavior observation and auditory information processing NC/PS 636
Undergraduate involvement with biological instrumentation OR/BZ 731
Undergraduate laboratory course in developmental psychology OH/PS 686
Undergraduate laboratory instruction in nutritional science NY/BZ 566
Undergraduate laboratory: Computer control of undergraduate science laboratory experiments MD/IN 361
Undergraduate learning environment restructuring HI/CH 188
Undergraduate marine science educational equipment SC/IN 808
Undergraduate mathematical modelling problems NC/MA 641
Undergraduate medical instrumentation laboratory in engineering and allied health CA/EN 57
Undergraduate meteorological laboratory equipment WA/ZZ 921
Undergraduate oceanographic curriculum rice university TX/EZ 845
Undergraduate psychology laboratory for experiments with human subjects TN/PS 834
Undergraduate research program in marine biology CA/BZ 82
Undergraduate research: Biochemistry cell physiology laboratory for Graduates and Pre-professionals AR/IN 34
Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Undergraduate semiconductor device fabrication projects TX/EN 858
Undergraduate statistics laboratory IL/IN 213
Undergraduate training for chemistry majors, minors and medical technologists AL/CH 10
Undergraduate use of a mass spectrometer in organic chemistry WI/CH 936
Undergraduate: Introductory physical geology for law enforcement studies students OH/EZ 679
Undergraduate: Project-oriented organic laboratories NY/CH 615
Underprepared students: Guided design in interdisciplinary intro= ductory college science program NJ/IN 529
Underwater photographic techniques: Independent field marine laboratory for two-year college students FL/BZ 158
Underwater side scan sonar system FL/EN 160
Unified lectures with discipline-differentiated labs for elementary statistics NY/MA 579
Unified science course for minimally motivated students MA/IN 397
Unimag proton precession magnetometers Geometrics HI/EZ 189
Unimedia color monitor receiver Sony ND/BZ 652
University of Toronto CAN system courseware MA/MA 369
UNIX: Improvement of undergraduate course in computer and operating systems NJ/CS 532
Update of holographic laboratory equipment for engineering technol= ogy students WI/PH 939
Updating the biochemistry component of a chemistry curriculum MN/CH 440
Updating the organic chemistry laboratory AL/CH 18
Upgrading computer facilities enhancing student lab experience in programming AL/CS 12
Upgrading lab facilities for neuroscience instruction OH/PS 688
Upgrading quantitative analysis, instrumental analysis and research MS/CH 465
Up-grading electronics courses IA/PH 293
Up-grading of undergraduate junior and senior physics laboratory KS/PH 298
Urban geology: Environmental project oriented field and laboratory science classes CA/EZ 52
Urban planning locational analysis IA/SZ 291
Use of microprocessors in automatic control systems KS/EN 303 KS/EN 304
Use of self-paced instruction in upper level physics SC/PH 797
Using microcomputers to teach computer organization and program= ming TX/CS 864
Uv absorbance detector Waters PA/CH 758
UV and visible light spectrometer CT/CH 133
Uv detector Isco VA/CH 907
UV detector Micromeritics Instrument Corp. TX/IN 839
Uv enzyme kinetics for medial technology students FL/ZZ 161
Uv monitor, flow cell, recorder Isco AL/IN 16
Uv operation Turner spectrophotometer CA/CH 56
Uv spectrophotometer Perkin Elmer WA/CH 919
Uv-vis. spectrophotometer and photofluorometer in undergraduate chemistry VT/CH 886
U.D. Corp. Udy I protein analyzer M-2000 DE/IN 146
Vacuum and temperature measurement: Laboratory equipment for integrated junior and senior chemistry laboratory MN/CH 441
Vacuum evaporator Polaron MI/BZ 404
Vacuum evaporator: Scanning electron microscopy and associated equipment for biologists MI/BZ 404

Vacuum gauge MKS Tru-Torr CO/CH 116
Vacuum pump Welch IA/ZZ 283
Vadic Auto Answer Modems VA317S CA/IN 42
Vadic Corp. chassis VA 1601 NY/BZ 562
Vadic Corp. modem WA 305-G NY/BZ 562
Vadic VA3400 1200 bps modem MA/CH 389
Van Water Rogers biology kits CA/IN 85
Van Water Rogers chemistry kits CA/IN 85
Van Water Rogers soil source kits CA/IN 85
Vapor pressure osmometer Wescor MO/BZ 472
Variable filter Krohu Hite TX/EN 852
Variable Speech Control Co. tape recorder speech compressor IN/ZZ 251
Varian AA-6 atomic absorption spectrophotometer PA/CH 786
Varian accessories NY/IN 578
Varian atomic absorption spectrometer 375 OR/CH 744
Varian Cary infrared spectrophotometer GA/CH 182
Varian Co. atomic absorption spectrophotometer 375 ABQ CO/EN 118
Varian data processor NY/IN 578
Varian direct probe accessory EM-6190 TX/CH 863
Varian EM 360A nuclear magnetic resonance spectrophotometer CT/CH 142
Varian EM 360L NMR spectrometer NC/CH 635
Varian EM3630 lock/decoupler MD/IN 361
Varian EM-300X NMR spectrometer KY/CH 320
Varian EM-360 60-MHz proton NMR spectrometer, lock/decoupler and oscilloscope NY/CH 615
Varian EM-360A nuclear magnetic resonance spectrometer IA/CH 273 NM/CH 546
Varian EM-3610 oscilloscope OH/CH 705
Varian EM-3630 lock decoupler OH/CH 705
Varian EM-3630 lock decoupler for EM-360 NMR spectrometer KY/CH 326
Varian EM-600 mass spectrometer CA/CH 45 PA/CH 783
Varian EM-600 medium resolution mass spectrometer KY/CH 320
Varian gas chromatograph NY/IN 578
Varian gas sampling adapter EM-6270 TX/CH 863
Varian Instruments EM 600 mass spectrometer OR/CH 741
Varian liquid chromatograph 4000 OR/CH 744
Varian mass spectrometer KY/CH 316
Varian mass spectrometer EM 600 VA/CH 899 WI/CH 936
Varian mass spectrometer EM600 VT/CH 889
Varian mass spectrometer EM-600 CA/CH 76 KY/CH 323 NY/CH 630 TX/CH 835 TX/CH 863
Varian mass spectrometer EM-600 with accessories VA/CH 893
Varian mass spectrometry TX/CH 863
Varian medium resolution mass spectrometer EM-600 PA/CH 749
Varian model 360L NMR spectrometer CA/CH 50
Varian model 600 mass spectrometer CA/CH 50
Varian NMR spectrometer EM300X VT/CH 889
Varian NMR spectrometer EM360A GA/CH 174 NY/CH 612
Varian NMR spectrometer T-60 WA/CH 924
Varian nuclear magnetic resonance spectrometer 360A OH/CH 705 OR/CH 744
Varian portable proton magnetometer OH/EZ 693
Varian Statos 42 electrostatic printer plotter OH/BZ 666
Varian strip chart recorder A-25 TX/CH 863
Varian strip chart recorder 9176 OR/CH 745
Varian uv-vis spectrophotometer 219 KS/CH 309
Varian 1000 atomic absorption spectrophotometer IL/EN 226
Varian 1440 gas chromatograph IL/EN 226
Varian 3700 gas chromatograph ID/EN 196
Veeco Instruments thermocouple gauge controls GA/PH 181
Veeco 12x18in. bell jar and gasket NY/EN 575
Vegetables: Computer simulated laboratory experiments investigating quality characteristics of foods OR/ZZ 735
Vegetational typing: Introductory remote sensing for multidisciplinary and natural sciences students IL/EZ 221
Vegetational typing: Remote sensing for forestry students IL/EZ 220
Vehicle transport laboratory estuarine studies FL/IN 153
Velocity meter air Thermo Systems MO/ZZ 422
Venturi flume OR/EN 733
Verification: Restructuring the undergraduate learning environment HI/CH 188
Vertebrate physiology lecture, laboratory manuals, NY/BZ 593
Vertebrate physiology: Procurement of physiograph for human anatomy and physiology laboratories CO/BZ 107
Vertebrates fossil undergraduate instruction OR/BZ 736
Vertebrates physiological parameters simultaneous recording NY/BZ 576
Vertical and horizontal geophones Walker Hall Sears MI/EZ 432
Vertical Diffraction Goniometer Philips MA/EZ 396
Vertical gel electrophoresis E-C Apparatus PA/BZ 788
Vertical mixer Burrows KS/EN 300
Vertical rotor RC-5B Sorvall centrifuge DuPont SV-80 AL/BZ 3
Vertis 10-145-MRBA freeze dryer base and drying chamber KS/EN 300
Veterinary science: Mastery learning for students in animal anatomy and physiology AZ/BZ 30
Vibration exciter B and K OH/EN 703
Vibration sound analyzer Metirx NM/EN 541
Vibrations laboratory mechanical OH/EN 703
Vibration: Computer graphics for instructional use MN/EN 454
Vibration: Senior laboratory in applied acoustics measurements with minicomputer assistance IL/PH 219
Vibrator sonic Fisher Scientific TX/EZ 845
Victoreen ionization meter 440 MO/PH 479
Victoreen panoramic ion chamber TN/PH 824
Victoreen survey meter 470A MO/PH 479
Victoreen 488-A neutron detector TN/PH 824
Video camera ac adaptor OH/BZ 700
Video camera lens Canon OH/BZ 700
Video camera monochrome Panasonic AL/PS 17
Video camera Panasonic OH/BZ 700
Video camera RCA Corp. OH/BZ 690
Video casette player color NY/EZ 551
Video cassette player Sony AK/BZ 20
Video cassette recorder color Sony OK/EN 714
Video cassette recorder editing unit, Panasonic NV-9500 MA/PS 388
Video cassette recorder Panasonic OH/BZ 700
Video cassette recorder player, Panasonic NV-9200 MA/PS 388
Video cassette recorder, Panasonic NC/PS 636
Video cassette recording tapes OH/MA 694
Video cassette Synsor learning module AVO-40W TI AL/MA 9
Video cassette tape player Sony CA/SZ 93
Video cassette tape Sony CA/SZ 92
Video cassettes Sony OH/SZ 676
Video cassette: Instructional ethnographic laboratory CA/SZ 92
Video display terminal Lear Siegler Inc. NC/EN 645
Video instruction ethnography CA/SZ 93
Video library for undergraduate developmental psychology MA/PS 388
Video microscope system for teaching wood anatomy MA/ZZ 391
Video monitor color Sony MI/CH 430
Video monitor Digi-Log WI/ZZ 943
Video monitor Panasonic TN/SZ 828
Video monitor Panosonic cassette tapes KS/PS 307
Video monitor receiver RCA NJ/EN 531
Video monitor Sharp color NY/EZ 551
Video monitor tape player JVC IN/ZZ 251
Video monitoring and recording equipment for human research sequence AL/PS 17
Video playback unit JVC NJ/EN 531
Video player JCR TN/CH 833
Video recorder Sanyo CA/BZ 82
Video recording tapes reel-to-reel OH/MA 694
Video tape course sociology anthropology OH/SZ 675
Video tape demonstration for chemistry teaching WA/CH 918
Video tape modules for self-paced introductory physics MO/PH 478
Video tape player JVC 5200 and video monitor IN/ZZ 251
Video tape recorder Betamax Sony Corp. MO/PH 478
Video tape recorder Sony digital remote control AL/PS 17
Video tape Sony OH/SZ 676
Video taped problem solutions for introductory physics WI/PH 934
Video tapes color engineering courses OK/EN 714
Video Tapes Laboratories Astronomy SC/PH 798
Video techniques for qualitative analysis for undergraduate social sciences IL/SZ 200
Video terminal Digital Equipment Corp. PA/PS 784
Videobeam color Advent CT/MA 145
Videocassettes energy topics MS/PH 467
Videotape cassette players Sony DC/BZ 149
Videotape recorder JVC ND/BZ 652
Videotape recorder Panasonic MA/ZZ 391
Videotaped FM simulations in physiology laboratory for health science ND/BZ 652
Videotapes and worksheets for alternative remedial instruction in chemistry CA/CH 72
Videoterminal Data Media CT/PS 134
Video-Beam projector Advent MI/CH 430
Video-Dex controller for random access of video cassette player CA/SZ 92
Video-Dex controller for random access of video cassette sections CA/SZ 93
Video-taped observation exercises of infant behavior and development KS/PS 307
Viewer film loop Beseler IL/IN 229
Viewlex Co. Apollo III planetarium projector and dome IA/ZZ 281
Viewlex Inc. Apollo III planetarium instrument AR/ZZ 41
Viewlex Inc. auxiliary projectors AR/ZZ 41
Viewlex Inc. peripheral projection enclosure AR/ZZ 41
Virology ultracentrifugation methodologies KY/BZ 315
Virology: Centralized tissue culture facility for students in biological sciences OK/BZ 718
Virtis tissue homogenizer 45 OR/BZ 731
Virtus Engineering automatic freeze dryer 10-010 KY/PS 312
Vir-Tis homogenizer CA/BZ 69
Viscometer Cannon Instrument Co. SD/CH 817
Viscometer rotational Ferranti NY/EN 603
Viscosity bath kinematic Temp-Trol IL/CH 202
Visible ultraviolet spectrophotometer Perkin Elmer TN/CH 821
Visible, ultraviolet infrared, spectrophotometers TN/CH 821
Vision color optical stimulator Maxwellian MA/PS 383
Visual aids: Computer and audiovisual equipment for teaching mathematics AL/MA 6

Visual aids: Computer generated phase diagrams in thermodynamics education IA/EN 279
Visual aids: Integrated two-course sequence in genetics LA/BZ 337
Visual and tutorial general biology for deaf students DC/BZ 149
Visual Horizons dissolve system NY/CH 590
Visual Maker Ektagraphic Kodak NY/PS 553
Visual Maker Kodak AL/MA 9
Visual psychophysics: Human research laboratory for junior level psychology majors AR/PS 38
Vitamins: Improvement in public understanding of chemicals in food NY/CH 559
Vocational counseling: Thematic approach to undergraduate social science curriculum VA/SZ 906
Voice artificial Bruel and Kjaer ME/EN 351
Voice key Scientific Prototype NC/PS 636
Volt meter Simpson PA/PH 773
Voltage controlled oscillator Coulbourn Instruments OH/PS 670
Voltage follower amplifier W. P. Instruments MD/BZ 365
Voltage power supply NIM bin Ortec Inc. VT/PH 887
Voltage probe Tektronix OK/EN 721
Voltmeter digital Fluke CA/EN 86
Voltmeter digital Hewlett Packard MI/IN 423
VOM Simpson MI/IN 423
VP2000 Sony video cassette player AK/BZ 20
Vreeland direct reading spectroscope Spectrex Co. AZ/EZ 22
Vreeland spectroscope Spectrex 7 MN/EZ 458
VWR Scientific, Advanced Instruments 3W osmometer IA/BZ 277
VWR Scientific, Houston Omniscribe chart recorders IA/BZ 277
Walkie-talkies Dynacom Lafayette OH/EZ 680
Wall mounting brackets CO/EN 113
Wall transmission loss: Undergraduate communication, electroacoustic, and environmental noise control laboratory ME/EN 351
Wang 2200 computer OK/SZ 723
Wang 2200 PCS portable computing system KS/MA 296
Wang 2231-W-1 line printer KS/MA 296
Wang 2244-A card reader OK/SZ 723
Wards filmstrip and cassette series on biochemistry MI/BZ 424
Wards human torso model 81W4005 MS/BZ 471
Wards Science Teaching Aids anatomical models, AZ/BZ 30
Wards space filling models 82W8115 MI/BZ 424
Ward's Natural Science aquatic collecting nets VA/IN 901
Waste disposal: Studies on radiation, projection, and radioactivity for science majors OH/IN 689
Waste water technology: Science laboratory project in support of community research needs CA/BZ 66
Wastewater analysis: Water analysis laboratory for environmental technology and engineering IL/EN 226
Wastewater: Engineering design learned using computers and microprocessor simulated plants IN/EN 264
Wastewater: Environmental engineering laboratory for civil engineering students VA/EN 895
Water analysis laboratory for environmental technology and engineering IL/EN 226
Water analysis laboratory: Environmental engineering technology laboratory for four-year city college CO/EN 118
Water analyzer Martek SC/IN 808
Water bath Fisher NC/IN 638
Water bath shaking Braun Thermomix KS/CH 297
Water chemistry: Equipment for laboratories in aquatic ecology NY/BZ 607
Water management modules educational system NY/EN 623
Water movement marine science fluorometric determination chlorophyll NY/ZZ 573
Water pollution: Development of modules on current mathematical applications MD/MA 358
Water pollution: Environmental engineering technology laboratory for four-year city college CO/EN 118
Water pollution: Modules in aquatic microbiology for microbiology, non-microbiology courses NY/BZ 619
Water quality kit Hach Chemical NC/ZZ 651
Water quality: Environmental engineering laboratory for civil engineering students VA/EN 895
Water quality: Environmental engineering technology laboratory for four-year city college CO/EN 118
Water recycling: Instructional scientific equipment program RI/BZ 794
Water sample measurements marine biology: CA/BZ 68
Water shaker bath American Optical NY/BZ 570
Water shaker bath A/O MN/CH 456
Water system pure Barnstead OK/BZ 718
Waterbath shaker gyrotary New Brunswick PA/BZ 789
Waters Associates D6K injector MN/CH 450
Waters Associates high performance liquid chromatography detector R401 MI/CH 412
Waters Associates high performance liquid chromatography detector 440 MI/CH 412
Waters Associates high performance liquid chromatography pump 6000A MI/CH 412
Waters Associates high performance liquid chromatography solvent programmer 660 MI/CH 412
Waters Associates high pressure liquid chromatography MA/CH 373
Waters Associates micro-Styragel columns MN/CH 450
Waters Associates M-6000 solvent delivery system MN/CH 450
Waters Associates R-400 differential refractometer MN/CH 450
Waters high pressure liquid chromatograph NY/CH 556
Waters universal LC injector U6K PA/CH 758
Waters uv absorbance detector 440 PA/CH 758
Water: Engineering design learned using computers and microprocessor simulated plants IN/EN 264
Water: Measurements in environmental science TX/IN 848
Water: Pilot equipment and instrumentation for engineering technology training PA/EN 776
Wattmeter digital EIL MA/EN 398
Wave analyser MA/EN 398
Wave form monitor power LA/BZ 341
Wave machine Ealing Shive SD/PH 819
Wave propagation: Mechanical engineering undergraduate laboratory NM/EN 541
Waves and music: Unified science course for minimally motivated students MA/IN 397
Wavetek sweep generator model 2002 CA/EN 78
Weather station Nassau AR/IN 37
Weather: Tornado flow theory IA/IN 278
Weather: Undergraduate meteorological laboratory equipment WA/ZZ 921
Wedge bonder K and S PA/EN 761
Weir accessories OR/EN 733
Weissenberg Camera Charles Supper Co. IN/IN 259
Welch vacuum pump 370-379 IA/ZZ 283
Well counter Nucleus Inc. MD/IN 360
Wescor vapor pressure osmometer 5130 MO/BZ 472
Westinghouse HOK magnet wire TN/EN 822
Westinghouse phaseangle meter P1-161 TN/EN 822
Wheatstone bridge Pasco TX/PH 849
Wheatstone stereoscope Marietta Apparatus, IL/PS 223
Wheels polishing Burhler SC/EN 807
Wild M5 stereomicroscope CT/BZ 140
Wild stereomicroscope equipped for photomicrography model M-50 CA/BZ 82
Wild stereomicroscope M7A MI/BZ 419
Wild teaching microscope M12 MA/ZZ 391
Wild teaching tube with pointer 256-547 MA/ZZ 391
Wildco Co. Ponar grab dredge NY/BZ 607
Wildco Ekman standard dredge field kit model 196 CA/BZ 68
Wildco ichthyo-macrozooplankton net 30-EXD SC/IN 808
Wildco protected thermometer W2191 SC/IN 808
Wildco reversing thermometer W2197 SC/IN 808
Wilderness recreation travel computer modeling ID/ZZ 195
Wildlife management: Computer simulated populations for demography, Ecology, evolution, population management KS/BZ 301
Wildlife Supply Co. Clark Bompus plankton sampler NY/BZ 563
Wiley Mill NE/BZ 499
Wind station Aerovane Bendix WA/ZZ 921
Wind tunnel Aerolab IA/EN 280
Wind tunnel Leybold AR/IN 37
Windowless flow counter Nuclear Instruments IN/PH 241
Wi dtunnel, Aerolab Supply Co. IL/EN 203
Wire coating line Killion MA/EN 394
Wire HOK magnet Westinghouse TN/EN 822
Wolfe microscopes 1WKM3L MI/BZ 420
Wolfe RBKC4 binocular microscopes SC/BZ 800
Wollensak tape recorder 2520 AV IN/ZZ 251
Women biochemistry laboratory MA/BZ 381
Women marine biology field experience MD/BZ 359
Women: Aquisition of equipment for a course in immunology NJ/BZ 522
Women: Audio tutorial self paced experiments open channel flow OR/EN 734
Women: Audiovisual materials and data assessment for college chemistry laboratory MN/CH 442
Women: Audio-tutorial approach in microbiology to encourage student self-direction MI/BZ 420
Women: Basic principles applied radiation physics NY/PH 599
Women: Construction of inexpensive environmental chamber NY/BZ 571
Women: Curriculum development in plant, animal, and microbial physiology SD/BZ 813
Women: Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems FL/BZ 151
Women: Development of interdisciplinary social science research skills AL/IN 13
Women: Electrophysiological Experiments for Science Majors and Medical Paraprofessionals MA/BZ 368
Women: Energy awareness in engineering physics PA/PH 771
Women: Experimental design for physiology concept reinforcement and skill acquisition CA/BZ 75
Women: Fluid mechanics laboratory on open channel flow OR/EN 733
Women: General, molecular, and population genetics laboratory improvement MA/BZ 386
Women: Geology thin-sectioning laboratory equipment for four-year college MA/EZ 382
Women: Health related physics laboratory for allied health students GA/PH 183
Women: Human body physics laboratory for health sciences students IL/PH 201
Women: Improvement of an individualized general chemistry course TX/CH 844

Women: Improvement of scientific instruments for undergraduate science instruction CA/BZ 69
Women: Improvement of teaching in science, mathematics, and social sciences IL/IN 205
Women: Improving data skills of sociology students through computer-assisted homework VA/SZ 900
Women: Improving scientific competency for students in allied chemical fields CT/CH 133
Women: Instructional equipment for acoustics and noise control undergraduate courses NY/EN 625
Women: Instructional scientific equipment in chemistry for minority students MD/CH 356
Women: Interactive timesharing computing environment for forest science instruction WI/ZZ 941
Women: Interfacing a microcomputer with instruments in a chemistry laboratory PA/CH 787
Women: Laboratory assisted biology and chemistry for two-year college NC/IN 638
Women: Laboratory equipment for integrated junior and senior chemistry laboratory MN/CH 441
Women: Laboratory instrumentation for health science chemistry OK/CH 710
Women: Marine biology: sampling mud organisms and water sample measurements CA/BZ 68
Women: Mass spectrometry for undergraduates using a Varian EM-600 TX/CH 863
Women: Mastery learning with computer assisted testing OH/CH 673
Women: Medical electronic instrumentation for pre-medical students TN/PH 820
Women: Nuclear magnetic resonance spectrometer procurement for course improvement GA/CH 174
Women: Optics for pre-college science teachers and scientists NY/EN 627
Women: Plant and animal developmental biology laboratory for biology majors CO/BZ 114
Women: Practical electronic technology laboratory for undergraduate college students MI/IN 423
Women: Project-oriented organic laboratories NY/CH 615
Women: Restructuring undergraduate laboratory teaching in biology SC/BZ 802
Women: Scientific equipment for foods and nutrition laboratory instruction CA/ZZ 59
Women: Scientific equipment for licensed practical nursing program AK/BZ 20
Women: Self paced minicourses in biology for the general student VA/BZ 896
Women: Small computer for students and faculty in several departments CA/IN 67
Women: State-of-the-art instrumentation in drug analysis courses KS/CH 309
Women: Subdividing general biology into competency, essential knowledge, multiple-choice courses MO/BZ 473
Women: Training undergraduate science majors in science reporting NY/IN 602
Women: Undergraduate laboratory instruction in nutritional science NY/BZ 566
Women: Undergraduate science major hands-on technical training in mass spectrometry NY/CH 626
Women: Unified science course for minimally motivated students MA/IN 397
Women: Updating the biochemistry component of a chemistry curriculum MN/CH 440
Women: Upgrading lab facilities for neuroscience instruction OH/PS 688
Women: Upgrading quantitative analysis, instrumental analysis and research MS/CH 465
Women: Video techniques for qualitative analysis for undergraduate social sciences IL/SZ 200
Women: Videotapes and worksheets for alternative remedial instruction in chemistry CA/CH 72
Wood anatomy video microscope MA/ZZ 391
Wood technology: Video microscope system for teaching wood anatomy MA/ZZ 391
Worden gravity meter OH/EZ 693
Worden gravity meter purchase for geology and geophysics KY/EZ 330
Worden gravity meter Texas Instruments KY/EZ 330
Words memory Digital Equipment Corp. WV/CS 925
Work design: Development of laboratories for production and safety engineering MO/ZZ 482
Workbook exercises: Computer assisted introduction to thematic maps for beginning students TN/EZ 830
Workshop endocrine glands SD/BZ 818
Written study guides: Modularizing an elementary statistics course for behavioral science students IA/MA 270
W. P. Instruments voltage follower amplifier MD/BZ 365
W-W roller mill with motor KS/EN 300
X-ray diffraction in geology MA/EZ 396
X-ray diffraction interdisciplinary IL/EZ 236
X-ray diffraction powder Phillips Norelco IL/EZ 236
X-ray diffraction unit for geology, physics, and chemistry WI/IN 951
X-ray diffractometer Diano NY/EZ 561
X-ray diffractometer for undergraduate geology corriculum NY/EZ 561
X-ray Minishot Diano Co. TN/PH 824
X-ray tubes copper chromium Phillips WI/IN 951
X-rays: Basic principles applied radiation physics NY/PH 599
X-ray: Engineering physics equipment and interfacing with microcomputers OH/PH 678
Yellow Springs battery operated salinity conductivity temperature meter 33 CA/BZ 68
Yellow Springs dissolved oxygen meter OH/BZ 696
Yellow Springs dissolved oxygen meter model 57 CA/BZ 68
Yellow Springs Instruments BOD oxygen probe and adaptor VA/IN 901
Yellow Springs Instruments dissolved oxygen meter 54RC RI/BZ 794
Yellow Springs oxygen electrode with recorder CT/BZ 137
Yellowstone oxygen meter TX/EZ 845
York room air conditioner 8500 BTU NY/BZ 571
YSI dissolved oxygen meter 54 FL/BZ 158
YSI model 53 oxygen meter CA/CH 56
YSI salinometer 33 FL/BZ 158
Zeiss cpi fluorescence illuminator WI/BZ 952
Zeiss fluorescence filters WI/BZ 952
Zeiss microscope TV monitor TX/EZ 845
Zeiss phase contrast microscopes standard 14 UT/BZ 882
Zeiss phase microscopes 47-09-14 CT/BZ 144
Zeiss transmitted fluorescent microscope WI/BZ 952
Zeromatic pH meters Beckman NY/BZ 549
Zeta Corp. digital plotter GA/EN 180
Zoology courses physiology laboratory IA/BZ 277
Zoology general genetics, ecology, systematics modules IL/BZ 222
Zoology: Audio-visual assisted introductory biology for science and nonscience majors SC/BZ 796
Zoology: Transport vehicle and in-situ laboratory for estuarine studies FL/IN 153
Zoom transfer scope Bausch and Lomb MA/EZ 367
Zoom transfer scope Bausch Lomb IL/EZ 220 IL/EZ 221 IL/SZ 237
101 Printer and interface, Centronics FL/MA 171
1977 PRO-24 Cuddy cabin boat FL/IN 153
3M Co. Sound Page System player 626 AAD OK/MA 727
3M overhead projector AL/EZ 1 AL/MA 6
3M Sound Page recorder and player IL/EN 228
3M Sound Pages master recorder and audio printer NE/MA 503
3M sound-on-slide projector and recorder system 625 CO/CH 128
3M sound-on-slide projectors MA/CH 384
3M Thermofax transparency maker AL/MA 6
3-D: Computer generated phase diagrams in thermodynamaics education IA/EN 279
3-M test scorer with computer interface 5500 MI/MA 433
6 Polyscience IL/CH 202
6800 Microprocessors AL/EN 4
7830VM Sony color monitor AK/BZ 20

PROJECT ROSTER

PROJECT ROSTER

ALABAMA

AL/EZ 1 LOCI/RULE
SER 77-03804
Alabama A and M University
Department of Natural Resources and Environmental Studies
Normal, AL 35762
McArthur Floyd (205) 859-7316
Audio tutorial, self instructional systems soil plant science teaching
Kodak Carousel 750 projectors
Realistic CTR-29 cassette recorders
3M overhead projector
Audiovisual; Self-paced; Minority students; Earth sciences

AL/PH 2 LOCI/RULE
SER 78-00091
Alabama State University
Department of Mathematics and Physical Sciences
Montgomery, AL 36101
S. K. Ghorai (205) 262-3581 Ext. 300
Introductory physics laboratory instruction
Minority students

AL/BZ 3 ISEP
SER 77-11483
Auburn University
Department of Zoology-Entomology
Auburn, AL 36830
James T. Bradley (205) 826-5929
Techniques in experimental cell biology for undergraduate biology majors
DuPont Sorvall RC-5B refrigerated centrifuge
DuPont SV-80 vertical rotor for RC-5B Sorvall centrifuge
Gilford model 250 uv-vis recording spectrophotometer
Gilford 2520 gel scanner for model 250 spectrophotometer
Density gradient centrifugation; Polyacrylamide gel electrophoresis; Molecular biology and protein analysis; DNA

AL/EN 4 LOCI/RULE
SER 76-14870
Auburn University
Department of Electrical Engineering
Auburn, AL 36830
Gerald R. Kane (214) 692-3081
Personal minicomputers to aid undergraduate instruction in computer design
6800 microprocessors
Power supply for microprocessors, constructed in house
Computer; Self-paced; Engineering

AL/CH 5 ISEP
SER 77-10420
Auburn University at Montgomery
Department of Chemistry
Montgomery, AL 36117
John Teggins (205) 279-9110
Instrumentation for biochemistry laboratory
Automatic titrator
Polarimeter
Liquid chromatograph
Recorder
Competency-based; Chemistry

AL/MA 6 ISEP
SER 76-12511
Birmingham Southern College
Department of Mathematics
Birmingham, AL 35204
R. S. Cunningham (205) 328-5250 Ext. 355
Computer and audiovisual equipment for teaching mathematics
Tektronix graphics computer terminal 4006-1
Digital Equipment APL/ASCII computer terminal LA36
NCR 265 portable APL/ASCII computer terminal
Tektronix hardcopy unit 4631
3M overhead projector
3M Thermofax transparency maker
Visual aids

AL/MA 7 LOCI/RULE
SER 78-00187
Birmingham Southern College
Department of Mathematics
Birmingham, AL 35204
R. S. Cunningham (205) 328-5250 Ext. 355
Computer-based laboratory for general statistics
Computer graphics; Portable; Mathematics

AL/CH 8 ISEP
SER 77-10400
Chattahoochee Valley State Community College
Department of Math-Science
Phenix City, AL 36867
Evans Hinson, Jr. (205) 297-4981 Ext. 233
Equipment enhancement of general and organic chemistry courses
Cenco gas chromatograph 66002N
Bausch and Lomb spectrophotometer 6890XY
Cenco Tops overhead projector 56013
Cenco spectrometer 3438 AW
Cenco Millikan oil drop apparatus
Corning pH meters 2752, 2406, 2466, 2592
Audiovisual; Competency-based; Self-paced; Non-science majors; Technician training; Atomic model theory (subatomics); Electron orbitals theory; Analytical techniques; Metric system; Stoichiometric calculations; Ratio and proportion; Logarithmic theory; Two-year college

AL/MA 9 ISEP
SER 76-14021
George Corley Wallace State Community College at Selma
Department of Mathematics
Selma, AL 36701
James M. Kinney (205) 875-2634
Remedial, tutorial, augmented self paced audiovisual instruction in mathematics
Singer Howe learning module 35
Synsor learning module AVO-40W with TI 3/4in. video cassette
Kodak Visual Maker
Audiovisual; Self-paced

AL/CH 10 ISEP
SER 76-13803
Jacksonville State University
Department of Chemistry
Jacksonville, AL 36265
Raymond E. Poore (205) 435-9820 Ext. 228
Undergraduate training for chemistry majors, minors and medical technologists
Perkin Elmer spectrophotometer, Hitachi 200 (uv-vis)
Perkin Elmer recorder, Hitachi 200
Minority students; Biochemistry; Nursing

AL/BZ 11 ISEP
SER 77-10353
Livingston University
Department of Biology
Livingston, AL 35470
Aileen L. Nixon (205) 652-9661 Ext. 242
Instructional equipment for human anatomy and physiology
Nystrom life size anatomical model, multimedia kit-2HE200T
Medical Plastics skull model 50-124 NAPM
Medical Plastics articulated skeleton SK-1AP[1]/2
Brady anatomy and physiology cassette scund/color filmstrips AP-15
Audiovisual; Technician training; Biology

AL/CS 12 ISEP
SER 77-11163
Spring Hill College
Department of Economics and Quantitative Methods
Mobile, AL 36608
Cort Schlichting (205) 460-2268
Upgrading computer facilities enhancing student lab experience in programming
Digital Equipment Corp. LA36 computer terminal
Texas Instruments 745 portable data terminal
Computer science

AL/IN 13 LOCI/RULE
SER 78-00710
Talladega College
Department of Psychology
Talladega, AL 35160
Jeanne Morrison (205) 362-6610
Development of interdisciplinary social science research skills
Competency-based; Minority students; Women; Non-science majors; Systems analysis; Reinforcement; Ordered learning; Bloom's Taxonomy; Interdisciplinary

AL/SZ 14 LOCI/RULE
SER 77-03820
Tuskegee Institute
Department of Philosophy
Tuskegee, AL 36088
Bryan C. Rickertsen
Interdisciplinary course in history and philosophy of science

AL/EN 15 ISEP
SER 76-13950
University of Alabama
Department of Chemical and Metallurgical Engineering
University, AL 35486
S. David Sanders
Instructional scientific equipment in chemical and metallurgical engineering

AL/IN 16 ISEP
SER 77-11441

University of Alabama in Huntsville
Department of Biology and Chemistry
Huntsville, AL 35807
Michael H. Eley (205) 895-6388
Ten-week introductory laboratory and technician training in biochemistry
IEC sucrose gradient centrifuge rotor model 488
Aminco chemiluminescence photometer and recorder model Chem-Glow
Brinkman sonic oscillator grinder model Polytron
Isco automatic fraction collector model 1200
Isco gradient analysis assembly model 185
Isco uv monitor, flow cell, and recorder model UA-5
Intermediate technology; Competency-based; Analytical techniques; Preparative methods; Qualitative analysis; Quantitative analysis; Enzymology; Developmental biology; Genetics; Cell biology; Interdisciplinary

AL/PS 17 ISEP
SER 77-11414
University of Alabama in Huntsville
Department of Psychology
Huntsville, AL 35807
Daniel Hays (205) 895-6191
Video monitoring and recording equipment for human research sequence
Sony SLO-320 video tape recorder with digital remote control
Panasonic monochrome special effects generator WJ545P
Panasonic monochrome video camera WV341P
Panasonic mini-wiper WJ530
Ann Arbor terminals 1632 KSR terminal with external sync
Computer; Social psychology; Behavioral observation; Social interaction; Natural language; Psychology

AL/CH 18 ISEP
SER 76-12414
University of South Alabama
Department of Chemistry
Mobile, AL 36688
N. Dale Ledford (205) 460-6183
Updating the organic chemistry laboratory
Perkin Elmer R-24B nuclear magnetic resonance spectrometer
Tectronix oscilloscope
NMR lock decoupler attachment
NMR equipment
Department of Physics
Department of Physics

ALASKA

AK/EN 19 ISEP
SER 76-14068
University of Alaska
Department of Electrical Engineering
Fairbanks, AK 99701
S. Vemuri/Robert Merritt
Electrical power laboratory equipment for engineering
Faraday laboratory bench
AC load panel and DC load panel
Hewlett Packard 7015A X-Y plotter
Hewlett Packard 1205B oscilloscope
Hewlett Packard 7402A ink recorder
Energy; Self-paced; Continuing education; Minority students

AK/BZ 20 ISEP
SER 77-12074
University of Alaska-Ketchikan Community College
Department of Biology
Ketchikan, AK 99901
Rod Enos (907) 225-6177
Scientific equipment for licensed practical nursing program
Anatomical model with removable plastic organs
Nursing practice model with orifices for insertions
Microscopes American Optical (10,43,-100x)
VP2000 Sony video cassette player
7830VM Sony color monitor
Self-instructional tapes
Reference materials
Women; Technician training; Biology; LPN program

ARIZONA

AZ/BZ 21 ISEP
SER 76-12713
Arizona State University
Department of Botany and Microbiology
Tempe, AZ 85281
Edward A. Birge (602) 965-7292
Improved facilities for upper division microbiology courses
Barnstead autoclave C176S
Sartorius balance 1106
Nikon inverted phase contrast microscope MS
Fisher Accumat pH meter 140A
Scientific Products microbiological transfer hood
Technician training; Biology; Bacteriology

AZ/EZ 22 ISEP
SER 76-12714
Arizona State University
Department of Geology
Tempe, AZ 85281
Donald M. Burt (602) 965-6180
Spectroscopic laboratory in introductory mineralogy
Spectrex Co. Vreeland direct reading spectroscope
Qualitative analysis; Mineral identification; Earth science

AZ/ZZ 23 ISEP
SER 77-11986
Arizona State University
Speech and Hearing Clinic
Tempe, AZ 85281
John R. Franks (602) 965-2373
Scientific equipment for speech and hearing science undergraduate instruction
Spectrophonics speech spectrographic display SSD-1
Starkey hearing science laboratory
Tandy TRS-80 minicomputer
Hewlett Packard 1441 storage oscilloscope
Grason Stadler 1713 audiometer
Competency-based; Self-paced; Handicapped; Audiology; Acoustics; Psychoacoustics; Language pathology

AZ/BZ 24 LOCI/RULE
SER 78-00063
Arizona State University
Department of Physics
Tempe, AZ 85281
Anton E. Lawson (602) 965-4101
Improvement of biological science for the elementary teacher
Non-science majors; Inquiry; Formal reasoning; Mastery; Biology

AZ/EN 25 ISEP
SER 76-12712
Arizona State University
Department of Mechanical Engineering
Tempe, AZ 85231
Douglas A. Limbert/Neil K. Cooperrider (602) 965-3683
Dynamics and control systems laboratory for mechanical engineering students
Electronic Associates Inc. (EAI) analogy hybrid computer EAI-180
Tektronix bistable storage oscilloscope 5111
Feedback Systems Inc. d.c. servo system MS150GM
Krohn Hite function generator 1000
Simulation

AZ/CH 26 LOCI/RULE
SER 76-14563
Navajo Community College
Department of Natural Sciences
Tsaile, AZ 86556
Raymond J. Barreras (404) 681-2800 Ext. 307
Improvement of reading skills using science course materials
Minority students; Pre-college teachers; Non-science majors; Instructor designed coursework; Mini laboratory experiences; Integrated laboratory classwork; Culturally oriented material; Chemistry

AZ/EZ 27 ISEP
SER 76-13609
Northern Arizona University
Department of Geography
Flagstaff, AZ 86011
S. Swarts (602) 523-2650
New soil geography course
Atkins 3 probe portable electronic thermometer F03-F-10
Lamotte soil test outfit STH-14
Micro surveying altimeter M-5
Environment; Earth science

AZ/IN 28 LOCI/RULE
SER 76-14567
University of Arizona
Department of Architecture
Tucson, AZ 85721
Robert W. Dvorak (602) 884-3134
Computer aided lessons on graphic communications for architecture students
Self-paced; PLATO

AZ/EN 29 LOCI/RULE
SER 77-03400
University of Arizona
Department of Mining and Geological Engineering
Tucson, AZ 85721
Ed Jucevic (602) 626-1001
Mining safety unit operations laboratory for mining engineering curriculum

AZ/BZ 30 LOCI/RULE
SER 77-01852
University of Arizona
Department of Veterinary Science
Tucson, AZ 85721
Ronald W. Hilwig (602) 626-2430
Mastery learning for students in animal anatomy and physiology
Kodak slide projector, Ektagraph model AF-2
Kodak Ektagraphic Audioviewer model 450
Autotutorial units, Audio Visual Medical Marketing Inc.
Anatomical models, Carolina Biological

Anatomical models, Wards Science Teaching Aids
Audiovisual; Competency-based; Self-paced; Biology; Veterinary science

AZ/EN 31 LOCI/RULE
SER 76-14488
University of Arizona
Department of Electrical Engineering
Tucson, AZ 85721
G. A. Kurn (602) 884-1181
Sophomore laboratory on programmed logic
KIM-1 microcomputer card MOS Technology Inc.
Computer; Microcomputer; Engineering; Assembler language

AZ/BZ 32 ISEP
SER 77-09705
University of Arizona
Department of Physical Education
Tucson, AZ 85721
Jack H. Wilmore (602) 884-1345
Laboratory experiences in the exercise sciences
Grass Instruments . odel 7 series polygraph
Lafayette Instrument Co. 16mm analyzer projector with stop action
Lafayette Instrument Co. photocell control system
Lafayette Instrument Co. Basain anticipation timer 50-575
Lafayette Instrument Co. stability platform 16020
Lumex Inc. Cybex II isokinetic strength testing device
Audiovisual; Computer-microprocessors; Pre-college teachers; Biomechanics; Exercise physiology; Motor learning; Kinesiology; Biology

AZ/BZ 33 ISEP
SER 76-12049
University of Arizona
Department of Astronomy
Tucson, AZ 85721
Neville Woolf
Instructional scientific equipment in astronomy and physics

ARKANSAS

AR/IN 34 ISEP
SER 77-10758
Harding College
Department of Biology
Searcy, AR 72143
Ward Bryce Roberson (501) 268-6161 Ext. 512
Biochemistry cell physiology laboratory for Graduates and Pre-professionals
Gilson differential respirometer IGRP14
Narco Biosystems physiograph CPM
IEC refrigerated centrifuge B-20A
Bausch and Lomb spectrophotometer Spectronic 20
Pre-college teachers; Technician training; Undergraduate research; Interdisciplinary

AR/CS 35 ISEP
SER 77-10711
Southern Arkansas University Southwest Technical Institute
Department of Electronics
E. Camden, AR 71701
Larry G. Owen (501) 574-0741 Ext. 51
Introduction to computer maintenance for electronic technicians
Hickok logic trainer K-80
Hickok memory trainer K-92
Continuing education; Technician training; Microprocessor training

AR/PH 36 LOCI/RULE
SER 77-02371
University of Arkansas
Department of Physics
Fayetteville, AR 72701
Donald O. Pederson (501) 575-2506
Freshman non-calculus introductory self-paced electronics laboratory
Heath laboratory breadboard ET-3300
Heath self-instruction electronic courses EE-3101, 3102, 3103, 3104, 3201
Heath microprocessor course EE-3401
Heath trainer 3400
Integrated circuits; Digital logic; Physics

AR/IN 37 ISEP
SER 76-12660
University of Arkansas
Department of Physics
Fayetteville, AR 72701
Gregory J. Salamo (501) 575-2506
Physics laboratory for architects
Leybold hydraulic press 361-10
Leybold wind tunnel 373-19
Nassau weather station
FLEX-TRAN heat flow meters 690
Quest Electronics sound level meter 215
Energy; Intermediate technology; Energy conservation; Solar energy; Acoustics; Lighting; Structure analysis; Interdisciplinary

AR/PS 38 ISEP
SER 76-13046
University of Arkansas
Department of Psychology
Fayetteville, AR 72701
David H. Westendorf (501) 575-4256
Human research laboratory for junior level psychology majors
Gerbrands Co. projection tachistoscope G1175
Beckman Instruments Dynograph R-611-S
Scientific Prototype standard 3-channel tachistoscope N-1000-S
Lafayette Instruments photoelectric slide reader projector 44020
Coulbourn Instruments various logic audiometric modules
Visual psychophysics; Psychoacoustics; Psychophysiology; Developmental psychology; Cognitive psychology; Social psychology; Learning

AR/CH 39 LOCI/RULE
SER 78-00354
University of Arkansas at Little Rock
Department of Chemistry
Little Rock, AR 72204
Robert Steinmeier (501) 569-3152
Physical chemistry for life sciences
Audiovisual; Computer; Competency-based; Self-paced

AR/PH 40 ISEP
SER 76-12808
University of Arkansas at Little Rock
Department of Physics and Astronomy
Little Rock, AR 72204
Donald C. Wold (501) 569-3278
Teaching acoustics and speech with real time spectrum analyzers
Rockland real time spectrum analyzer model FFT 512/S
MFE X-Y recorder with time base generator model 815M
Bruel and Kjaer measuring microphone model 4161
Bruel and Kjaer microphone preamplifier model 2627
Bruel and Kjaer microphone power supply model 2801
Tandberg tape recorder, half-track 2-channel model 10XD
Audiovisual; Handicapped; Non-science majors; Physics

AR/ZZ 41 ISEP
SER 76-13800
University of Arkansas at Monticello
Department of Physical Science
Monticello, AR 71655
Joe M. Guenter (501) 367-6811 Ext. 65
Planetarium for instruction of physical science, teachers, and public
Viewlex Inc. Apollo III planetarium instrument
Highland Products Corp. hemispherical dome screen 16ft. diameter
Viewlex Inc. peripheral projection enclosure
Viewlex Inc. auxiliary projectors
Audiovisual; Environment; Continuing education; Pre-college teachers; Non-science majors; Physics; Earth science; Elementary teachers; Elementary pupils; Astronomy

CALIFORNIA

CA/IN 42 ISEP
SER 77-11192
Bakersfield College
Instructional Computer Center
Bakersfield, CA 93305
Olin Kirkland (805) 395-4275
Computer assisted instruction for chemistry, economics, and future studies
Hewlett Packard graphics terminals 2648A
Digital Equipment Corp. CRT terminals VT52
Applied Digital Data Systems CRT terminals consul 520
Digicom acoustic couplers AC312
Vadic Auto Answer Modems VA317S
Interdisciplinary

CA/EN 43 ISEP
SER 76-12782
Butte College
Department of Engineering Technology
Oroville, CA 95965
R. D. Carrozza (916) 895-2451
Establishment of calibration standards for electronic test equipment
Fluke portable calibrator 515A
Technician training; Engineering

CA/EN 44 ISEP
SER 77-11739
California Institute of Technology
Department of Chemical Engineering
Pasadena, CA 91125
R. W. Vaughan (213) 795-6811
Computer assisted control in laboratory practice
PDP 11/03 computer system
Engineering; Minicomputer

CA/CH 45 ISEP
SER 77-11022
California State College-Dominguez Hills
Department of Chemistry
Carson, CA 90747
James L. Lyle (213) 515-3412
Mass spectroscopy in undergraduate chemistry
Varian EM-600 mass spectrometer
Analysis

CA/CS 46 LOCI/RULE
SER 78-00361
California State College-San Bernardino
Department of Physics
San Bernardino, CA 92407
F. F. Liu (714) 887-7368
Microcomputer laboratory for non-engineering students
KIM-1 microcomputer
Computer science; Non-science majors; Computer

CA/SZ 47 ISEP
SER 76-13640
California State College-Sonoma
Department of Geography
Rohnert Park, CA 94928
Claude R. Minard
Instructional scientific equipment in social sciences

CA/PH 48 ISEP
SER 76-13185
California State University-Fullerton
Department of Physics
Fullerton, CA 92634
Louis N. Shen
Instructional scientific equipment in physics

CA/MA 49 LOCI/RULE
SER 78-00042
California State University-Fullerton
Department of Mathematics
Fullerton, CA 92634
Ray C. Shiflett (714) 870-3326
Team taught interdisciplinary statistics with multimedia labs
Audiovisual; Computer; Intermediate technology; Mathematics

CA/CH 50 ISEP
SER 77-10874
California State University-Hayward
Department of Chemistry
Hayward, CA 94542
D. L. Peterson (415) 881-3452
Instrumentation for upper division chemistry laboratories
Varian model 360L NMR spectrometer
Varian model 600 mass spectrometer
Gow Mac liquid chromatograph 80-500
Computer; Intermediate technology; Technician training; Analysis

CA/EZ 51 ISEP
SER 76-12697
California State University-Long Beach
Department of Geological Sciences
Long Beach, CA 90840
Roswitha B. Grannell (2,3) 498-4927
Revision of instruction and instrumentation in geophysics
Simpson potentiometric XY-YT miniature recorder 2745
Geotell telluric current unit (custom made)
Energy; Environment; Electrical methods; Telluric current measurements; Earth science

CA/EZ 52 LOCI/RULE
SER 77-03202
California State University-Long Beach
Department of Geological Sciences
Long Beach, CA 90840
Roswitha B. Grannell (213) 498-4927
Environmental project oriented field and laboratory science classes
Millipore stream analysis kit
Non-science majors; Urban geology; Interdisciplinary; Honor students; Earth sciences

CA/EN 53 ISEP
SER 77-10581
California State University-Long Beach
Department of Mechanical Engineering
Long Beach, CA 90840
Edward Miller (213) 498-4407
Mechanical properties of plastics laboratory
ATS creep frame direct load tester 2130
Perkin Elmer liquid chromatograph 254-010
Intermediate technology; Polymers; Molecular weight; Creep testing; Temperature

CA/SZ 54 ISEP
SER 77-10498
California State University-Long Beach
Department of Geography
Long Beach, CA 90840
Frederick H. Scantling (213) 498-4977
Surrogate field experience for geography students
Singer Corp. CARAMATE II slide projector 8865
Singer Corp. CARAMATE II slide projector 8866
Audiovisual; Environment; Competency-based; Self-paced; Audiotutorial; Social sciences

CA/PH 55 ISEP
SER 76-12725
California State University-Los Angeles
Department of Physics
Los Angeles, CA 90032
Charles C. Coleman (213) 224-3607
Solid state physics laboratory for seniors
Princeton applied research lock-in amplifier 5203
Spex Industries spectrometer 1870
Intermediate technology; Technician training; Modulation spectroscopy; Interface states; Charge coupled devices; Optical properties; Superconductivity; Specific heats

CA/CH 56 ISEP
SER 77-09818
California State University-Northridge
Department of Chemistry
Northridge, CA 91330
Robert G. Wolcott (213) 885-3370
Biochemistry laboratory emphasizing current research techniques
Turner model 330 single beam spectrophotometer
YSI model 53 oxygen meter
Quartz halogen lamps for uv operation of Turner spectrophotometer
Intermediate technology; Technician training; Protein analysis; Nucleotide analysis; Oxygen monitoring; Chemistry

CA/EN 57 ISEP
SER 76-12971
California State University-Sacramento
Biomedical Engineering Program
Sacramento, CA 95819
Albert M. Cook (916) 454-6916
Undergraduate medical instrumentation laboratory in engineering and allied health
Gould Brush four channel strip chart recorder
Neuro Dyne electrical safety analyzer 431F
Neuro Dyne defibrillator tester 429
Teac four channel FM tape recorder R 70-A
Parke Davis ECG simulator 3150
Audiovisual; Computer; Nursing students; Biomedical engineering; Laboratory technology; Classroom demonstration

CA/CH 58 LOCI/RULE
SER 77-02782
California State University-Sacramento
Department of Chemistry
Sacramento, CA 95819
Fredi Jakob (916) 483-0224
Computer audio visual assisted instruction in chemical instrumentation
Digital Equipment Co. digital to analog converter
Minicomputers; Computer instrument interface; Chemistry

CA/ZZ 59 ISEP
SER 76-13290
San Diego State University
Department of Family Studies and Consumer Sciences
San Diego, CA 92182
Ronald V. Josephson (714) 286-5380
Scientific equipment for foods and nutrition laboratory instruction
Labaconco Kjeldahl combination digestion and distillation multi-unit apparatus
Goldfisch fat extraction 6-unit apparatus
Crude fiber 6-unit condenser
Spectronic 20 spectrophotometers and reflectance attachment
Turner fluorometer
Women; Home economics; Food analysis; Nutrient analysis; Metabolic assessment; Dietetics; Food science

CA/BZ 60 ISEP
SER 76-13292
San Diego State University
Department of Botany
San Diego, CA 92182
Jochen Kummerow (714) 286-6327
Scanning electron microscopy for undergraduate plant morphology instruction
Scanning electron microscope MSM-5, International Scientific Instruments Inc.
Sputter coater including vacuum pump E-5000
Critical point drying apparatus E-3000
Audiovisual; Environment; Plant anatomy; Structural visualization; Plant surface; Botany; Biology

CA/PH 61 ISEP
SER 77-11000
San Diego State University
Department of Physics
San Diego, CA 92182
Stephen B. W. Roeder
Microprocessors in instrumentation and control
Vector Electronics mainframes with mother boards
Heath video terminals
Z-80 CPU boards
8K static RAM
Wizard serial parallel interface boards
Computer; Microprocessor interface; Physics

CA/CH 62 ISEP
SER 77-11951

Harvey Mudd College
Department of Chemistry
Claremont, CA 91711
Paul Van Eikeren (714) 621-8000 Ext. 3931
Gas chromatograph mass spectrometer system for undergraduate chemistry laboratories
Finnigan 3200 F-100 electron impact ionization source
Gas chromatograph mass spectrometer system
Environment; Analytical chemistry

CA/PH 63 LOCI/RULE
SER 77-02790
Harvey Mudd College
Department of Physics
Claremont, CA 91711
T. M. Helliwell (714) 621-8000 Ext. 3281
Booklets of undergraduate physics course material from current research
Pulsars; Controlled fusion; Space colonies; Black holes; Solar power; Superfluids

CA/ZZ 64 ISEP
SER 77-11760
Pitzer College
Department of Joint Sciences
Claremont, CA 91711
Stanley Klein (714) 621-8000 Ext. 2679
Computer graphics and spectrum analyzer for four year college
Computer; Microcomputer; Storage oscilloscope; Artificial intelligence

CA/PS 65 ISEP
SER 77-10596
Pomona College
Department of Psychology
Claremont, CA 91711
Carol K. Peck
Student generated laboratory in physiological psychology
Kopf radio frequency lesion generator RFG 4
Lafayette Instrument student operant behavior systems
Lafayette Instrument cumulative recorders
Lafayette Instrument activity platform
Competency-based; Self-paced; Brain stimulation; Neurophysiology; Animal laboratory; Lesion studies; Psychology

CA/BZ 66 LOCI/RULE
SER 77-02788
Orange Coast College
Department of Biology
Costa Mesa, CA 92626
Gary James (714) 556-5846
Science laboratory project in support of community research needs
Gill net 150 by 6 ft.
Environment; Intermediate technology; Pre-college teachers; Non-science majors; Technician training; Waste water technology; Microbiology; Marine science; Biology; Fish; Oceanography

CA/IN 67 ISEP
SER 76-12814
College of Notre Dame
Department of Mathematics
Belmont, CA 94002
Jane M. Day (415) 593-1601
Small computer for students and faculty in several departments
Micro Computing Machines 816 calculator
Micro Computing Machines MCP-132 printer plotter
Micro Computing Machines DDS-500 dual diskette
Micro Computing Machines PMR 400 PIM card reader
Micro Computing Machines VDU-2480 CRT display
Minority students; Pre-college teachers; Women; Non-science majors; Mathematics; Chemistry; Physics; Computer science; Engineering; Business; Social science; Psychology; Teacher training

CA/BZ 68 ISEP
SER 76-13229
Dominican College of San Rafael
Department of Biology
San Rafael, CA 94901
M. Aquinas Nimitz (415) 457-4440 Ext. 271
Marine biology: sampling mud organisms and water sample measurements
Wildco Ekman standard dredge field kit model 196
Yellow Springs dissolved oxygen meter model 57
Yellow Springs battery operated salinity conductivity temperature meter 33
Environment; Women

CA/BZ 69 ISEP
SER 76-12895
Holy Names College
Department of Biological Science
Oakland, CA 94619
Denise Madeleine Ploux (415) 436-0111
Improvement of scientific instruments for undergraduate science instruction
Gelman Instrument Co. DCD-16 digital computing biomedical densitometer
Damon-IEC Division refrigerated centrifuge CRU-5000
Oxford automatic dispensor
Corning model 610A pH meter
Vir-Tis homogenizer
Intermediate technology; Women; Biochemistry undergraduate laboratory; Physiological chemistry laboratory; Biology

CA/CH 70 LOCI/RULE
SER 78-00496
Loma Linda University
Department of Chemistry
Riverside, CA 92515
H. Raymond Sheldon (714) 785-2150
Audiotutorial introductory chemistry for non-science majors

CA/PH 71 ISEP
SER 77-10950
East Los Angeles College
Department of Physics
Los Angeles, CA 90022
Richard Kenealy
Instructional scientific equipment in physics

CA/CH 72 LOCI/RULE
SER 77-03404
Los Angeles Trade-Technical College
Department of Chemistry
Los Angeles, CA 90015
Peter Coad (213) 746-0800 Ext. 258
Videotapes and worksheets for alternative remedial instruction in chemistry
Audiovisual; Self-paced; Minority students; Women; Non-science majors; Technician training; Technician; Nursing; Health science majors

CA/BZ 73 LOCI/RULE
SER 78-00970
Los Angeles Trade-Technical College
Department of Science and Mathematics
Los Angeles, CA 90015
Mary C. Mundell (213) 746-0800 Ext. 393
Laboratory assistance videotapes for life science
Audiovisual; Minority students; Non-science majors; Microbiology; Anatomy; Biology

CA/PH 74 ISEP
SER 76-13747
Mills College
Department of Physical Science
Oakland, CA 94613
A. A. Bonney
Instructional scientific equipment in physics

CA/BZ 75 ISEP
SER 77-11923
Mount Saint Mary's College
Department of Biological Sciences
Los Angeles, CA 90049
Annette Bower (213) 476-2237
Experimental design for physiology concept reinforcement and skill acquisition
Narco Bio-systems physiographs CPM-4-7070
M. Erb fluorescent microscopy assembly
Ampsco electrocardiograph
Competency-based; Women; Non-science majors; Sciences for health majors; Human anatomy; Premedical studies; Nursing; Biology; Gerontology

CA/CH 76 ISEP
SER 77-10386
Occidental College
Department of Chemistry
Los Angeles, CA 90041
Frank L. Lambert (213) 259-2763
Improvement in organic, inorganic, and student research laboratories
Perkin Elmer infrared spectrophotometer 397
Varian mass spectrometer EM-600
Environment; Chemistry

CA/PH 77 ISEP
SER 77-11921
Point Loma College
Department of Physics
San Diego, CA 92106
Garth E. Morse (714) 222-6474 Ext. 349
Purchase of instruments for teaching electronics in physics laboratory
Tektronix T922 oscilloscopes
Fluke 8020A digital multimeter
Integrated circuits; Logic gates

CA/EN 78 ISEP
SER 77-10932
City College of San Francisco
Department of Engineering
San Francisco, CA 94112
J. Wakabayashi (415) 239-3246
Swept frequency microwave measurements and measurement of frequency spectrum
Ailtech spectrum analyzer model 72712
Wavetek sweep generator model 2002
Hewlett Packard oscilloscope 1201A
Narda dual directional coupler 3020A
Electrical engineering; Community college; Technician training

CA/PH 79 LOCI/RULE
SER 78-00097

City College of San Francisco
Department of Physics
San Francisco, CA 94112
Norman R. Whitlatch (415) 239-3474
Modern physics experiments for two year college
Ealing gaussmeter

CA/PS 80 ISEP
SER 76-13782
Santa Ana College
Department of Psychology
Santa Ana, CA 92706
Courtland Holdgraffer
Instructional scientific equipment in psychology

CA/PH 81 ISEP
SER 77-11757
Santa Barbara City College
Department of Physics
Santa Barbara, CA 93109
Isidor Elias (805) 965-0581
Physics of music for music oriented students
Hewlett Packard spectrum analyzer 3580A
ElectroComp synthesizers 101 and 200
Nakamichi casette tape recorder
Fourier synthesizer Pasco model 9307
Non-science majors; Music synthesizer

CA/BZ 82 ISEP
SER 76-13913
Stanford University
Department of Biological Sciences, Hopkins Marine Station
Pacific Grove, CA 93950
Donald P. Abbott (408) 373-0464
Undergraduate research program in marine biology
Gilson differential refrigerated respirometer model GRP-14
Sanyo video recorder player with camera VTC 8400
Wild stereomicroscope equipped for photomicrography model M-50
Nikon F2S and Nikonia II cameras for underwater photography
Li-Cor radiometer photometer with underwater quantum sensor LI-185
Ryan waterproof temperature chart recorder model J-90
Environment; Invertebrate physiology and ecology; Activity patterns of marine animals; Circadian activity; Oceanography

CA/EN 83 LOCI/RULE
SER 78-00470
Stanford University
Department of Civil Engineering
Stanford, CA 94305
Henry W. Parker (415) 497-3926
Interactive computer graphics for simulation of large construction operations
Timelapse camera
Timelapse projector
Timelapse photography; Engineering

CA/EN 84 ISEP
SER 76-12520
Stanford University
Department of Civil Engineering
Stanford, CA 94305
Boyd C. Paulson (415) 497-2235
Interactive computer graphics for simulating construction field operations
Digital Equipment Corp. PDP 11/34 minicomputer 64K word
Digital Equipment Corp. VT11 graphics subsystem
Digital Equipment Corp. RK05 disk drives
Digital Equipment Corp. TS03 9 track magnetic tape
Digital Equipment Corp. LA36 console terminal
Audiovisual; Self-paced; Analytical models; Time lapse movies; Civil engineering; Construction engineering

CA/IN 85 LOCI/RULE
SER 77-03120
Taft College
Department of Chemistry
Taft, CA 93268
I. N. Adams (805) 765-4191
Natural science designed for the disadvantaged learner
Van Water Rogers chemistry kits
Van Water Rogers soil source kits
Van Water Rogers biology kits
Environment; Self-paced; Continuing education; Minority students; Non-science majors; Interdisciplinary; Chemistry; Soil testing; Biology

CA/BZ 86 ISEP
SER 76-13069
University of California-Berkeley
Department of Bacteriology and Immunology
Berkeley, CA 94720
Hiroshi Nikaido
Improvement in the laboratory instruction of microbiology
Beckman liquid scintillation counter LS-300
Bacteriology; Biology

CA/EZ 87 ISEP
SER 77-10898
University of California-Berkeley

Department of Geology and Geophysics
Berkeley, CA 94720
Clyde Wahrhaftig (415) 642-3417 or 642-3993
Undergraduate instruction in photogeology
Dietzgen mirror stereoscope model 7100-1
Dietzgen 3 power binocular eyepieces model 7100-2
Dietzgen 6 power binocular eyepiece tube model 7100-3A
Dietzgen stereometers model 7100-4
Energy; Environment; Intermediate technology; Competency-based; Geomorphology; Economic geology; Engineering geology; Structural geology; Geologic mapping; Earth sciences

CA/EN 88 ISEP
SER 76-13723
University of California-Davis
Department of Electrical Engineering
Davis, CA 95616
John N. Churchill (916) 752-1950
Integrated circuit laboratory improvement
Polaroid Land camera
Hewlett Packard 6205B power supply
Tektronix TLCT71 curve tracer
Fluke 8000A digital voltmeter
Boonton 72BD capacitance meter
MOSFET testing stations; Engineering

CA/BZ 89 ISEP
SER 76-14658
University of California-Davis
Department of Biochemistry and Biophysics
Davis, CA 95616
J. L. Hedrick (916) 752-3611
Teaching fluorescence assay in a biochemistry laboratory course
Aminco Bowman fluorocolorimeter J4-7439
Optical methods; Chemistry; Analytical methods; Fluorimeters; Biology

CA/BZ 90 ISEP
SER 76-13545
University of California-Davis
Department of Zoology
Davis, CA 95616
J. A. Stamps
Improvements in introductory zoology laboratory
Carolina Biological Aqua-Lab 503
Kodak Carrousel projector
Audiovisual; Student initiated experiments; Student designed experiments; Biology

CA/SZ 91 LOCI/RULE
SER 77-03410
University of California-Irvine
Department of Social Sciences
Irvine, CA 92717
Michael D. Butler (714) 833-6334
Multidisciplinary university introduction to children as a research topic
Linguistics; Sociology; Psychology; Social science; Interdisciplinary

CA/SZ 92 ISEP
SER 76-13214
University of California-Irvine
Department of Social Sciences
Irvine, CA 92717
Benjamin N. Colby (714) 833-6800
Instructional ethnographic laboratory
Datamedia terminal
Video-Dex controller for random access of video cassette player
Sony video cassette tape player
PDP-11/03 computer
Audiovisual; Computer; Competency-based; Self-paced; Anthropology; Ethnology; Cross cultural testing; Field work; Observation and inference; Film; Video cassette

CA/SZ 93 LOCI/RULE
SER 76-14516
University of California-Irvine
Department of Social Sciences
Irvine, CA 92717
Benjamin N. Colby (714) 833-6800
Self paced video and computer assisted instruction in ethnography
Datamedia Elite 1520 terminal
Video-Dex controller for random access of video cassette sections
Sony video cassette tape player
PDP-11/03 computer
Sigma 7 computer
Audiovisual; Computer; Competency-based; Anthropology; Ethnology; Field work; Guatemala; Mayan indians; Ixil Mayan indians; Eidochronic analysis; Analysis of textual materials; Myth and ritual; Ethnic relations; Social sciences

CA/CH 94 ISEP
SER 76-13507
University of California-Los Angeles
Department of Chemistry
Los Angeles, CA 90024
Jerome V. V. Kasper (213) 825-4225
Theoretical physical chemistry laboratory

Hewlett Packard graphics computer terminal 2648A
Computer; Quantum mechanics; Thermodynamics; Kinetics; Simulations

CA/IN 95 ISEP
SER 77-10261
University of California-Los Angeles
Molecular Biology Institute
Los Angeles, CA 90024
Richard L. Weiss (213) 825-3621
Biochemical methods laboratory
Beckman ultracentrifuge L5-65
Beckman uv visible recording spectrophotometer model 25
Hitachi uv visible spectrophotometer model 100
Beckman swinging bucket rotor SW-41Ti
Beckman pH meter model 35000
Biochemistry; Molecular biology; Chemistry; Cell biology; Nucleic acids; Proteins; Metabolism; Interdisciplinary

CA/ZZ 96 LOCI/RULE
SER 78-00053
University of California-Riverside
Department of Sociology
Riverside, CA 92521
R. DiMatteo and H. Friedman (714) 787-5734 or 787-3672
Innovative undergraduate course in social psychology and health
Medical psychology; Premedical course; Stress and illness; Physician and patient interactions

CA/EN 97 LOCI/RULE
SER 77-02368
University of California-Riverside
Department of Physics
Riverside, CA 92521
Glen E. Everett (714) 787-5343
Low cost microcomputer controllers, use, and applications
Tektronix Inc. microprocessor lab model 8002
Texas Instrument printer model 810
Perkin Elmer terminal model 1100
Intermediate technology; Technician training; Instrumentation design; Automated instrumentation; Engineering

CA/SZ 98 LOCI/RULE
SER 77-02784
University of California-Santa Barbara
Department of Anthropology
Santa Barbara, CA 93106
Brian M. Fagan
Later African prehistory packaged course
Audiovisual; Self-paced; Archeology; Social sciences; History

CA/MA 99 LOCI/RULE
SER 76-14801
University of California-Santa Barbara
Department of Mathematics
Santa Barbara, CA 93106
David L. Outcalt
Local course improvement in mathematics

CA/MA 100 LOCI/RULE
SER 77-03809
University of California-Santa Barbara
Department of Mathematics
Santa Barbara, CA 93106
David L. Outcalt
Self paced introductory linear and higher algebra

CA/IN 101 LOCI/RULE
SER 78-00277
University of California-Santa Barbara
Algebra Institute and University Extension
Santa Barbara, CA 93106
David S. Simonett (805) 961-3139
Instructional materials for scientific information retrieval
Computer; Bibliography; Interdisciplinary; Information science

CA/CS 102 ISEP
SER 76-12630
University of the Pacific
Department of Mathematics
Stockton, CA 95211
William H. Ford (209) 946-2293
Educational uses of computer graphics
Tektronix 4006-1 graphics terminal
Tektronix 4631 hard copy unit
Audiovisual; General graphics system; Teaching packages; Computer science; Multitasking

CA/IN 103 LOCI/RULE
SER 76-14495
University of the Pacific
Department of Chemistry
Stockton, CA 95211
Larry Spreer (209) 946-2272
Multidisciplinary laboratory course for science majors
Energy; Environment; Self-paced; Biology; Chemistry; Geology; Physics; Interdisciplinary

CA/SZ 104 ISEP
SER 77-08062
University of Santa Clara
Department of Sociology and Anthropology
Santa Clara, CA 95053
Witold Krassowski (408) 984-4508
Undergraduate archeology laboratory program
Bausch and Lomb microscope KTVB-73
Lietz transit Bt-20-149180
Pentax camera
Bronica camera
Dietzgen drafting table 311TA9-48
Hamilton 61J14 map storage cabinet
Anthropology; Social sciences; Archeology methods; Archeology field studies

CA/CS 105 ISEP
SER 76-12167
University of Southern California
Department of Electrical Engineering
Los Angeles, CA 90007
John P. Hayes (213) 741-5509
Microprocessor laboratory for electrical engineering and computer science study
INTEL MDS-800 microcomputer development system
ICOM dual-drive floppy disk unit
INTEL MDS-UPP-100 PROM programming unit
Teletype model ASP-33
Datamedia 1520 CRT terminal
Computer

CA/EN 106 ISEP
SER 77-11800
West Coast University
Department of Engineering
Los Angeles, CA 90020
Paul Pietrokowsky
Instructional scientific equipment in engineering

COLORADO

CO/BZ 107 ISEP
SER 77-10586
Arapahoe Community College
Department of Biology
Littleton, CO 80120
G. Arthur Stephens (303) 794-1550 Ext. 301
Procurement of physiograph for human anatomy and physiology laboratories
Physiograph cabinet model
Audiovisual; General biology; Human physiology; Vertebrate physiology; Health occupations majors

CO/CH 108 ISEP
SER 76-12965
Colorado College
Department of Chemistry
Colorado Springs, CO 80903
Richard L. Taber (303) 473-2233
Biochemical laboratory improvement
Beckman liquid scintillation counter LS-100c
ISCO electrophoresis power supply 49L
Parr cell disruption bomb 4635
Perkin Elmer R-12 variable temperature accessory
Chemistry

CO/CH 109 LOCI/RULE
SER 78-00162
Colorado School of Mines
Department of Chemistry
Golden, CO 80401
Michael J. Pavelich (303) 279-0300 Ext. 638
Laboratory remedial chemistry using structured open ended inquiry formats
Piagetian theory; Abstract thought; General chemistry; Mathematical reasoning; Formal thought

CO/PH 110 ISEP
SER 76-13038
Colorado School of Mines
Department of Physics
Golden, CO 80401
F. D. Schowengerdt (303) 279-0300 Ext. 831
Improvement of instrumentation and advanced physics laboratory courses
Tektronix test set TM-500
Tektronix oscilloscope 5000

CO/EN 111 ISEP
SER 77-10845
Colorado State University
Department of Electrical Engineering
Fort Collins, CO 80523
M. Andrews (303) 491-7097
Microprocessor based interdisciplinary laboratory
Logic state analyzer HP 1607
Microprocessors EPA 683
ASR 43 TTY
Logic state analyzer HP 1611

Computer; Intermediate technology; Programming; Interface design; Assembly design; Transducer coupling; Engineering

CO/CS 112 ISEP
SER 76-13676
Colorado State University
Department of Computer Science
Fort Collins, CO 80523
Patricia R. Mohilner (303) 491-7137
Individual hands-on computer experience for core computer science
Hewlett Packard HP21MX microprogrammable computer
Digital Equipment Corp. DECWriter II hard-copy computer terminal
SOROC Technology IQ 120 computer terminal
Computer laboratory; Assembly programming; Computer architecture

CO/EN 113 LOCI/RULE
SER 77-03401
Colorado State University
Department of Civil Engineering
Fort Collins, CO 80523
M. Daniel Vanderbilt (303) 491-6685
TV tapes for engineering properties of materials courses
RCA XL-100 19in. color TV sets
Wall mounting brackets
Audiovisual

CO/BZ 114 ISEP
SER 77-02896
Colorado Women's College
Department of Biology
Denver, CO 80220
Pat Wier (303) 394-6872
Plant and animal developmental biology laboratory for biology majors
Blue Spruce Biological prepared microscope slides
Living plant and animal specimens
Carolina Biological microdissecting kits
Carolina Biological microscope slide cabinets
Audiovisual; Women

CO/BZ 115 ISEP
SER 76-13674
Fort Lewis College
Department of Biology
Durango, CO 81301
John E. Dever Jr.
Instructional scientific equipment in biology

CO/CH 116 ISEP
SER 76-13591
Fort Lewis College
Department of Chemistry
Durango, CO 81301
J. W. Mills (303) 247-7776
Advanced instrumental analysis
Perkin Elmer DSC-1B differential scanning calorimeter
Princeton Applied Research 134A polarographic analyzer
GCA and McPherson EU-700 monochromator
MKS Tru-Torr vacuum gauge
Houston 2000 omnigraphic X-Y recorder
Physical measurements; Independent study; Chemistry

CO/CH 117 ISEP
SER 77-10296
Fort Lewis College
Department of Chemistry
Durango, CO 81301
John Ritchey
Instructional scientific equipment in chemistry

CO/EN 118 ISEP
SER 77-10465
Metropolitan State College
Department of Civil Engineering Technology
Denver, CO 80204
Eldon Lindimore (303) 629-3227
Environmental engineering technology laboratory for four-year city college
Varian Co. atomic absorption spectrophotometer 375 ABQ
Environment; Self-paced; Continuing education; Minority students; Technician training; Water quality; Water analysis laboratory; Water pollution; Potable water supply

CO/CH 119 ISEP
SER 76-13394
Trinidad State Junior College
Department of Chemistry
Trinidad, CO 81082
Margaret J. Gilbert (303) 846-5529
Nuclear chemistry laboratory equipment for two-year college
Electronic Designs alpha beta gamma laboratory system

CO/ZZ 120 ISEP
SER 76-14032
University of Colorado at Boulder
Department of Astro-Geophysics
Boulder, CO 80309
Donald E. Billings (303) 492-8766

Equip and assemble a solar laboratory
Heliostat with 12in. cervit mirror Carson Astronomical Instruments
Ferromagnetic table 12ft. Modern optics Corporation
Day Star hydrogen alpha filter
Interference filter 10 angstrom
Optical table accessories
Energy; Environment; Non-science majors; General astronomy laboratory; Solar phenomena; Photography; Spectroscopy; Astronomy

CO/EN 121 ISEP
SER 77-10492
University of Colorado at Boulder
Department of Chemical Engineering
Boulder, CO 80309
David E. Clough (303) 492-6650
Centralized data acquisition system for undergraduate chemical engineering laboratory
Data General Nova 3/12 minicomputer
Computer Products Inc. RTP process interface
Centronics 761 terminal printer
Tektronix 4013 graphic display terminal
Tektronix 4662 digital plotter
Computer; Real time computer; Process control computer; On-line computer; Chemistry

CO/PH 122 LOCI/RULE
SER 77-03236
University of Colorado at Boulder
Department of Astro-Geophysics
Boulder, CO 80302
J. McKim Malville (303) 492-0111
Energy and sun and synthesis of astronomy and technology
Energy; Non-science majors; Solar energy; Astrogeophysics; Physics

CO/PH 123 ISEP
SER 76-13975
University of Colorado at Colorado Springs
Department of Physics and Energy Science
Colorado Springs, CO 80907
Richard A. Blade (303) 598-3737
Solar thermal student laboratory and classroom demonstration
Constructed solar flatplate air collectors
Constructed solar flatplate water collectors
Constructed solar concentrating collectors
Constructed passive solar building
Barnes Instatherm infrared thermometer
Energy; Passive solar heating; Heat storage; Heat transfer; Physics

CO/CH 124 ISEP
SER 77-09611
University of Colorado at Colorado Springs
Department of Chemistry
Colorado Springs, CO 80907
Allen M. Schoffstall
Instructional scientific equipment in chemistry

CO/EN 125 ISEP
SER 76-13725
University of Colorado at Colorado Springs
Department of Electrical Engineering and Computer Science
Colorado Springs, CO 80907
Claude A. Wiatrowski (303) 598-3737 Ext. 289
Digital systems and microcomputer laboratory
Intel PROMPT-80 microcomputer development station
Tektronix 8002 microcomputer development station
Computer; Logic; Microprocessor; Read only memory; Engineering

CO/EN 126 ISEP
SER 76-13386
University of Colorado at Denver
Department of Civil and Urban Engineering
Denver, CO 80202
Ernest C. Harris (303) 629-2871
Dynamic test system for engineering materials and soils
MTS materials testing instrument 810.12 with soil testing modifications
Hewlett Packard strip chart recorder with 2 pens
Antour consolidation apparatus model A
Hewlett Packard tranducers TDCDT-1000
Dynamic triaxial testing; Expansive soils testing; Low cycle fatigue testing

CO/PS 127 LOCI/RULE
SER 77-02769
University of Denver
Department of psychology
Denver, CO 80208
Janice M. Keenan (303) 753-2478
Software for instruction in cognitive psychology laboratory
Computer; Experimentation; Simulation; Lab manual

CO/CH 128 LOCI/RULE
SER 76-14672
University of Northern Colorado
Department of Chemistry
Greeley, CO 80639
Marlynn P. James (303) 351-2559
Inquiry method and Piagetian approach to general college chemistry
3M sound-on-slide projector and recorder system 625
Self-paced; Concrete reasoning; Formal reasoning

CONNECTICUT

CT/CH 129 LOCI/RULE
SER 78-00159
Fairfield University
Department of Chemistry
Fairfield, CT 06430
Frederick L. Lisman (203) 255-5411 Ext. 554
Improvement in general chemistry using computer assisted instruction
Self-paced; Remediation of fundamental mathematics; Practice and drill on chemical problems

CT/CH 130 ISEP
SER 76-12153
Fairfield University
Department of Chemistry
Fairfield, CT 06430
John MacDonald
Chemical separations
Waters liquid chromatograph 204
Varian mass spectrometer EM 600
Intermediate technology; Competency-based; Chemistry

CT/IN 131 LOCI/RULE
SER 77-02453
Quinnipiac College
Department of Psychology and Biology
Hamden, CT 06518
Cornelius C. Meyer (203) 288-5251 Ext. 215
Student research instruction in psychobiology
Brain research; Interdisciplinary; Psychology; Biology

CT/CH 132 ISEP
SER 77-10956
Sarced Heart University
Department of Chemistry
Bridgeport, CT 06606
Anthony Pinciaro (203) 374-9441 Ext. 214
Instrumental analysis, atomic absorption, and audiovisual material
Perkin Elmer atomic absorption spectrophotometer 373
Huley Associates instrumental analysis and audiovisual material
Chemistry

CT/CH 133 ISEP
SER 77-10603
St. Joseph College
Department of Chemistry
West Hartford, CT 06117
Clare Markham (203) 232-4571
Improving scientific competency for students in allied chemical fields
Mettler Balance
Bausch and Lomb Spectronic 20
Spectranal emission spectrograph
UV and visible light spectrometer
Environment; Women; Non-science majors; Technician training; Chemistry; Biology; Nutrition; Medical technologists; Nurses

CT/PS 134 ISEP
SER 77-10246
Trinity College
Department of Psychology
Hartford, CT 06106
Karl F. Haberlandt (203) 527-3151 Ext. 406 or 408
Real-time computing in cognitive and physiological psychology laboratories
Digital Equipment DECLAB 11/34 system 1
Digital Equipment LA36 DEC terminal
Data Media videoterminal
Tektronix 604 monitor
L-W International Model 200 variable speed projector
Audiovisual; Computer; Reading and comprehension time experiments; Computer controlled experiments; Analog to digital conversion of evoked potentials and EEG

CT/IN 135 ISEP
SER 76-12991
Trinity College
Department of Engineering
Hartford, CT 06106
A. E. Sapega (203) 527-3151
Social science computing facilities for liberal arts college
DEC PDP 11/34 computer
Interdisciplinary

CT/SZ 136 LOCI/RULE
SER 77-02768
University of Connecticut
Department of Linguistics
Storrs, CT 06268
Janet Dean Fodor
Supplementary teaching materials for language and mind

CT/BZ 137 ISEP
SER 76-13546
University of Connecticut
Department of Microbiology
Storrs, CT 06268
Antonio H. Romano (203) 486-4316
Independent research projects in microbiology
Yellow Springs oxygen electrode with recorder
Bronwill sonicator
Servall GLC-2 centrifuges
New Brunswick scientific water bath shaker
Mettler analytical balance
Environment; Biology

CT/BZ 138 ISEP
SER 76-13841
University of Connecticut
Department of Biological Sciences
Storrs, CT 06268
D. F. Wetherell (203) 486-4061
Improvement of undergraduate plant physiology laboratory course
Diffusion resistance meter Lambda LI-65
Thermocouple psychrometer Wescor HR33T and accessories
Leaf area meter Lambda LI-3000
Quantom light meter Lambda LI-170
Plant growth chamber Sherer CEL-36-10
Audiovisual; Self-paced; Modern methodology; Plant water relations; Biology

CT/ZZ 139 ISEP
SER 77-12101
University of New Haven
Department of Forensic Science
West Haven, CT 06516
Henry C. Lee (203) 934-6321
Equipment for forensic science laboratory
Spectrex Co. direct reading spectroscope model 7
Research Device Inc. ir microscope model J
Perkin Elmer Co. pyrolyzer Pyroprobe 190
Fisher Scientific Co. refractometer, Abbe
Non-science majors; Technician training

CT/BZ 140 ISEP
SER 76-12686
Wesleyan University
Department of Biology
Middletown, CT 06457
Allan Berlind (203) 344-0464
Laboratory equipment for comparative physiology and neurophysiology
Narco physiograph DMP-4B with accessories
American Optical twin view stereomicroscope
Wild M5 stereomicroscope
Grass P-15 amplifier
Audiovisual; Biology

CT/CH 141 ISEP
SER 76-13106
Wesleyan University
Department of Chemistry
Middletown, CT 06457
John W. Sease/H. David Todd (203) 347-9411 Ext. 378 or 820
Elementary chemical instrumentation for computer-interfaced data acquisition and processing
DECLAB 11/03 minicomputer with floppy disks, operating system and Fortran
DEC analog AAV-11, ADV-11 and digital DRV-11 computer subsystems
DEC real-time clock KWV-11 computer subsystem
Keithley 168 digital multimeter
Tektronix T922 dual-trace oscilloscope
Analog electronics; Digital electronics; Programming; Software

CT/CH 142 ISEP
SER 77-10250
Western Connecticut State College
Department of Chemistry
Danbury, CT 06810
Paul S. Hines (203) 797-4219
NMR spectrophotometer for undergraduate chemistry training
Varian EM 360A nuclear magnetic resonance spectrophotometer

CT/IN 143 ISEP
SER 77-10594
Yale University
Department of Molecular Biophysics and Biochemistry
New Haven, CT 06520
William H. Konigsberg
Instructional scientific equipment in interdisciplinary science

CT/BZ 144 ISEP
SER 76-14023
Yale University
Department of Biology
New Haven, CT 06520
Alvin Novick (203) 436-1291
Phase microscopy for developmental biology
Zeiss phase microscopes 47-09-14

CT/MA 145 LOCI/RULE
SER 76-14798
Yale University
Department of Mathematics
New Haven, CT 06520

Robert H. Szczarba (203) 436-1133
First year calculus with computer
Advent 1000A color videobeam
Ontel A4000 APL/ASCII video display terminal
Graphics feature for Ontel A4000 APL/ASCII video display termina
Audiovisual; Non-science majors; Mathematics

DELAWARE

DE/IN 146 ISEP
SER 77-11025
University of Delaware
Department of Food Science and Human Nutrition
Newark, DE 19711
Alexander R. Doberenz (302) 738-2301
Instructional scientific equipment program
U.D. Corp. Udy I protein analyzer M-2000
Contamination Control biohazard hood CCI 760
New Brunswick Scientific Co. PsycroTherm incubator shaker G26
SAI Technology Co. ATP photometer 3000
Aeromatic Inc. fluid bed spray granulator dryer STREA-1
Food science; Human nutrition; Interdisciplinary

DISTRICT OF COLUMBIA

DC/PS 147 ISEP
SER 77-11179
American University
Department of Psychology
Washington, DC 20016
Anthony L. Riley (202) 686-2310
Physiological and pharmacological laboratory additions to biopsychology core courses
Bausch and Lomb dissecting microscope BVB 125
Bausch and Lomb dual binocular microscope BLD 3Z1H
American Optical sliding microtome A0860
Kopf Instruments small animal stereotaxic 900
Mettler analytical balance H80
Turner fluorometer 110
Corning Mega-Pure still 3510
Blue-M drying oven 30C
Technician training; Biochemistry; Endocrinology; Toxicology; Psychology; Biology; Chemistry

DC/SZ 148 LOCI/RULE
SER 76-14588
American University
Department of Anthropology
Washington, DC 20016
David M. Rosen
Local course improvement in social sciences

DC/BZ 149 ISEP
SER 76-13432
Gallaudet College
Department of Biology
Washington, DC 20002
Charlie R. Powell (202) 447-0723
Visual and tutorial general biology for deaf students
Sony VP-2000/RFK 203 color videotape cassette players
Sony 19in. KV1920 color TV monitors
Self-paced; Handicapped; Non-science majors; Hearing disability

DC/EN 150 ISEP
SER 76-13065
George Washington University
Department of Electrical Engineering and Computer Science
Washington, DC 20052
Hermann J. Helgert (202) 676-6208
Laboratory for statistical communication theory
Engineering

FLORIDA

FL/BZ 151 ISEP
SER 77-11789
Barry College
Department of Biology
Miami, FL 33161
Agnes Louise Stechschulte (305) 758-3392
Designed physiological experiments using physiograph, electrophoresis, and biofeedback systems
Gelman electrophoresis system, Sepra Tek 51155 and power supply 38206
Narco physiograph unit 750-2241 and recording channels and accesories
Narco biofeedback modules NB-101, 122, 132, 192, 222, and 401
Biomonitoring Applications Inc. cassettes: Biofeedback Techniques and Experiments
American Optical teaching binocular microscope DXL10BUQW, M2200-1
Minority students; Pre-college teachers; Women; Non-science majors; Technician training; Physiology; Psychobiology; Embryology; Parasitology; Histology; Biology

FL/PH 152 ISEP
SER 77-11039

Florida Institute of Technology
Department of Physics and Space Science
Melbourne, FL 32901
J. C. Love
Multi-terminal, laboratory and graphics computer system for physics labs
Digital Equipment Corp. PDP-11/03 computer system
Digital Equipment Corp. VT55 graphics terminal
Heath Co. H11 computer
Data Translation Inc. analog/digital conversion subsystem
University of California at San Diego pascal
Self-paced; Computer simulation; Computer aided design; Fast Fourier transform; Remote sensing

FL/IN 153 ISEP
SER 76-14037
Florida Junior College at Jacksonville
Department of Biology
Jacksonville, FL 32205
Hector Harima (904) 387-8160
Transport vehicle and in-situ laboratory for estuarine studies
1977 PRO-24 Cuddy cabin boat
Johnson outboard motor 140TXL77
Murray boat trailer M23DT
Environment; Intermediate technology; Pre-college teachers; Non-science majors; Technician training; General biology; Zoology; Botany; Ecology; Ichthyology; Oceanograhy; Diving training; Boat handling training; Marine biology; Interdisciplinary

FL/PH 154 ISEP
SER 76-12077
Hillsborough Community College
Department of Physics
Tampa, FL 33622
Dale Thompson (813) 879-7222 Ext. 527
Computer graphics capability for computer assisted physics
Tektronix 4006 graphics terminal
Computer

FL/PH 155 LOCI/RULE
SER 76-14576
Hillsborough Community College
Department of Physics
Tampa, FL 33622
Dale Thompson (813) 879-7222 Ext. 527
Computer based simulated experiments and exercises for introductory physics
Computer

FL/PH 156 LOCI/RULE
SER 77-02420
Hillsborough Community College
Department of Physics
Tampa, FL 33622
Dale Thompson (813) 879-7222 Ext. 527
Computer graphics based simulations, experiments, and exercises for physics
Computer

FL/SZ 157 ISEP
SER 76-13823
Rollins College
Department of Behavioral Science
Winter Park, FL 32789
James D. Upson
Instructional scientific equipment in social sciences

FL/3Z 158 ISEP
SER 77-10468
Saint Petersburg Junior College
Department of Math and Sciences
St. Petersburg, FL 33710
Roy G. Hundley (813) 391-8896
Independent field marine laboratory for two-year college students
YSI dissolved oxygen meter 54
YSI salinometer 33
Classmate Kemmerer nonmetallic sampling bottle
Sterling sampling Otter trawl
Classmate biological dredge
Audiovisual; Environment; Self-paced; Marine biology; Oceanography; Marine environment; Biological taxonomy; Photomicrography; Data analysis; Underwater photographic techniques; Scientific writing; Aquatic safety; Aquarium maintenance

FL/IN 159 LOCI/RULE
SER 78-01496
Saint Petersburg Junior College
Department of Natural Sciences
St. Petersburg, FL 33733
Marvin L. Ivey (813) 546-0011 Ext. 306
Field experience in botany, geology, oceanography, and interdisciplinary science
Cameras
Swedish increment borer
Portable cassette recorders
Audiovisual; Environment; Non-science majors

FL/EN 160 ISEP
SER 76-13698

Florida Atlantic University
Department of Ocean Engineering
Boca Ratan, FL 33431
Stanley E. Dunn (305) 395-5100
Underwater side scan sonar system
EDO Western 606 sidescan sonar system
Ocean; Engineering; Acoustics; Oceanography

FL/ZZ 161 ISEP
SER 76-13244
Florida International University
Department ... Medical Technology
Miami, FL 33199
Janet L. Zins (305) 552-2870
Uv enzyme kinetics for medial technology students
Perkin Elmer uv-vis double beam spectrophotometer 570-000
Perkin Elmer recorder 570-0100
Perkin Elmer digital temperature controller 570-0701
Competency-based; Continuing education; Clinical chemistry; Biochemistry; Chemistry

FL/MA 162 LOCI/RULE
SER 77-03413
Florida State University
Department of Mathematics
Tallahassee, FL 32306
E. P. Miles, Jr. (904) 644-1587
Computer generated dynamic graphic modules for undergraduate mathematics instruction
Audiovisual

FL/PS 163 ISEP
SER 77-10911
Florida Technological University
Department of Psychology
Orlando, FL 32816
Edwin C. Shirkey
Instructional scientific equipment in psychology

FL/PH 164 ISEP
SER 76-13222
University of Florida
Department of Physics
Gainesville, FL 32611
F. E. Dunnam
Instructional scientific equipment in physics

FL/PS 165 LOCI/RULE
SER 77-02306
University of Florida
Department of Psychology
Gainesville, FL 32611
C. Michael Levy (904) 392-0607
Computer managed laboratories for four cognitive physchology courses
PDP 11/34 computer
Fox alphanumeric terminals
Printronix line printer
Intermediate technology; Self-paced; Experimental psychology; Real time; Time sharing; Modeling and simulations

FL/BZ 166 LOCI/RULE
SER 77-02435
University of Florida
Department of Entomology
Gainesville, FL 32611
D. R. Minnich (904) 392-1901
Modulized course in principles of entomology
Audiovisual; Competency-based; Self-paced; Individualized study; Biology

FL/IN 167 ISEP
SER 76-13221
University of Florida
Department of Neuroscience and Physchology
Gainesville, FL 32611
S. Zornetzer (904) 392-2777
Methods in neurobiology
Kopf stereotaxics
Tektronix oscilloscopes
Narco polygraphs
Surgical instruments
Grass stimulator
Intermediate technology; Competency-based; Psychobiology; Physiological psychology; Surgical technique; Behavioral measurement; Neurology; Neuroanatomy

FL/EN 168 ISEP
SER 76-12631
University of South Florida
Department of Energy Conversion
Tampa, FL 33620
L. A. Scott (813) 974-2581
Instrumentation and microprocessor laboratory for mechanical and chemical engineers
Digital multimeter Tektronix DM 501
Digital multimeter Tektronix DM 502
Pulse counter Tektronix DC 503
Microprocessor system E and L Laboratories MMD-1/A
Instructors package for TTL integrated circuits
Engineering

FL/EN 169 ISEP
SER 76-13097
University of South Florida
Department of Electrial and Electronic Systems
Tampa, FL 33620
Jerry E. Sergent
Instructional scientific equipment in engineering

FL/PH 170 ISEP
SER 76-12644
University of West Florida
Department of Physics
Pensacola, FL 32504
Palmer L. Edwards (904) 476-9500 Ext. 355
Microwave equipment for undergraduate physics laboratories
Microwave laboratory equipment kit, Hewlett Packard model 1026A
Physical electronics

FL/MA 171 LOCI/RULE
EPP 75-08432
Stetson University
Department of Mathematics
Deland, FL 32720
Gareth Williams (904) 734-4121
Integrating the computer into mathematics courses
Nova 1220 CPU with 8K memory, Data General
ASR 33 teletype, Data General
101 printer and interface, Centronics
Card reader assembly, Data General
Computer; Interdisciplinary

FL/IN 172 LOCI/RULE
SER 77-03214
University of Miami
Department of Ophthalmology
Miami, FL 33124
Thorne Shipley (305) 547-6071
Sensory basis of art and human communication
Audiovisual; Continuing education; Non-science majors; Biophysics; Neuropsychology; Music; Dance; Language; Information theory; Honors department; Interdisciplinary

FL/CH 173 LOCI/RULE
SER 76-14583
Valencia Community College
N/A
Orlando, FL 32802
Marion H. Baker (305) 299-5000 Ext. 7312
Desk top kits for introductory chemistry: a Piagetian approach
Minority students; Abstraction aids; Intellectual maturity; Intellectual development

GEORGIA

GA/CH 174 ISEP
SER 76-12526
Armstrong State College
Department of Chemistry and Physics
Savannah, GA 31406
Paul E. Robbins (912) 356-5304
Nuclear magnetic resonance spectrometer procurement for course improvement
Varian NMR spectrometer EM360A
Continuing education; Women; Technician training; Spectrum collection; NMR spectra

GA/PH 175 ISEP
SER 77-11776
Armstrong State College
Department of Chemistry and Physics
Savannah, GA 31406
Morris L. Whiten (912) 356-5314
Electronic measurements for scientists
E and L Instruments analog digital designer 8000
Tektronix oscilloscope T-922
Keithley Instruments multimeter 179
Technician training; Chemistry; Physics

GA/IN 176 ISEP
SER 77-11204
Atlanta Junior College
Department of Mathematics and Natural Science
Atlanta, GA 30310
Joseph W. Patterson (404) 656-6366
Computer aided instruction in mathematics and physics
IBM 029 keypunch machine
LA36 DECWriter terminal
Lear Seigler ADM 3A terminal
Tektronix 4006-1 graphics terminal
Computer; Minority students; Computer graphics; Computerized diagnostic testing; Interdisciplinary

GA/PH 177 ISEP
SER 76-12987
Emory University
Department of Physics
Atlanta, GA 30322
Raymond C. DuVarney (404) 329-6123
Telescope laboratory for introductory astronomy for mostly non-science majors
Celestron International portable 5 inch Schmitt Cassegrain telescopes
Physics

GA/BZ 178 LOCI/RULE
SER 77-03147
Emory University
Department of Biology
Atlanta, GA 30322
Charles Ray
Development of computer based lab for undergraduate genetics course

GA/EN 179 ISEP
SER 76-13228
Georgia Institute of Technology
Department of Nuclear Engineering
Atlanta, GA 30332
J. Narl Davidson (404) 894-3728
Gamma spectrometry and time analysis for nuclear detection laboratory
Canberra multichannel analyzer 8100-1K with input and output options
Canberra Ge(Li) detector with cryostat and preamplifier
Hewlett Packard programmable calculator 9815 with 2 output options
Canberra NIM coincidence system
Coincidence counting; Activation analysis; Automatic data reduction; Engineering

GA/EN 180 ISEP
SER 76-13302
Georgia Institute of Technology
Department of Civil Engineering
Atlanta, GA 30332
James S. Lai (404) 894-2285
Minicomputer based material testing data acquisition system
Interdata 8/16 minicomputer
Interdata 10 megabyte disk
Zeta Corp. digital plotter
Interdata digital and analog input and output devices
Engineering

GA/PH 181 LOCI/RULE
SER 76-14971
Georgia Institute of Technology
Department of Physics
Atlanta, GA 30332
James R. Stevenson (404) 894-5200
Transport phenomena in acoustics, plasmas, and condensed matter
Engelhard fuel cell 15-S
General Radio oscillator and analyzer
Princeton Applied Physics lock in amplifier
John Fluke power supply
Veeco Instruments thermocouple gauge controls
Energy; Environment; Charge transfer; Mass difussion; Energy transport; Sound; Shock waves; Convection; Electrical current; Gas discharge; Semiconductors; Physics

GA/CH 182 ISEP
SER 76-12503
Georgia State University
Department of Chemistry
Atlanta, GA 30303
H. Fred Henneike (404) 658-3120
Advanced spectroscopy experiments for senior chemistry labs
Cary Varian 17D ultraviolet, visibe and near infrared spectrophotometer
Biochemistry; Inorganic chemistry

GA/PH 183 ISEP
SER 76-12513
Georgia State University
Department of Physics
Atlanta, GA 30303
Carl R. Nave (404) 658-3221
Health related physics laboratory for allied health students
Modular Medical Electronics measurement system from Pasco Scientific
Tektronic 5L4N spectrum analyzer
Tektronix C-5 oscilloscope camera
Women

GA/BZ 184 LOCI/RULE
SER 78-00080
North Georgia College
Department of Biology
Dahlonega, GA 30533
Dorothy L. Brock (404 864-3391 Ext. 219
Development of laboratory alternatives in introductory biology
Audiovisual; Self-paced; Non-science majors; Science majors; Special interests

GA/CH 185 LOCI/RULE
SER 78-00310
North Georgia College
Department of Chemistry
Dahlonega, GA 30533
Thomas C. Davis (404) 864-3391 Ext. 296
Dynamic LAP dissolved models for organic chemistry
D56 Kodak Carousel dissolve control model 2
Audiovisual; Self-paced; Piaget; Concrete operational student; Chemical reaction mechanism

GA/PH 186 ISEP
SER 77-10962
West Georgia College
Department of Physics
Carrollton, GA 30117
B. E. Powell (404) 834-1375
Observatory for geneal astronomy courses and student projects
Rand Instrument Corp. 14 inch telescope
Physics

HAWAII

HI/SZ 187 LOCI/RULE
SER 77-02403
University of Hawaii
Department of Political Science
Honolulu, HI 96822
Richard W. Chadwick
Teaching comparative organization theories through simulation

HI/CH 188 LOCI/RULE
SER 76-14499
University of Hawaii
Department of Information and Computer Sciences
Honolu'u, HI 96822
W. Wesley Peterson (808) 948-8111
Restructuring the undergraduate learning environment
Self-paced; Mathematics; Proof; Verification; Computer science

HI/EZ 189 ISEP
SER 76-12126
University of Hawaii
Department of Geology and Geophysics
Honolulu, HI 96822
John C. Rose (808) 948-7939
Scientific exploration equipment for undergraduate geophysics instruction
General Radio 1657-9700 Digi-Bridge RLC impedance bridge
Geometrics Exploranium GR-310 portable gamma ray spectrometer
Elliot geophysical PP-2A magnetic susceptibility meter
Geometrics G-826A and G-836 Unimag proton precession magnetometers
Bison 1575B signal enhancement seismograph
Bison 2350B earth resistivity meter
Technician training; Oil; Mineral; Mining; Petroleum; Geothermal; Earth science

IDAHO

ID/IN 190 ISEP
SER 77-10347
College of Idaho
Department of Biology
Caldwell, ID 83605
David D. Gillette (208) 459-5332
Field vehicle for field sciences
Chevrolet K-20 4-wheel suburban with deluxe cab
Biology; Geology; Archeology; Interdisciplinary

ID/CH 191 ISEP
SER 77-10689
College of Idaho
Department of Chemistry
Caldwell, ID 83605
Bruce S. Schatz
Proton magnetic resonance spectroscopy for undergraduate chemistry
Perkin Elmer R-24B NMR spectrometer
Nuclear magnetic resonance

ID/IN 192 ISEP
SER 76-12727
Idaho State University
Department of Microbiology and Biochemistry
Pocatello, ID 83209
Ronald W. McCune (208) 236-2375
High speed refrigerated centrifuge in the modern biochemical laboratory
Beckman J-21C refrigerated centrifuge
Beckman JA-21 fixed angle rotor
Beckman JA-20 fixed angle rotor
Interdisciplinary; Chemistry

ID/PH 193 LOCI/RULE
SER 78-00969
University of Idaho
Department of Physics
Moscow, ID 83843
Lawrence W. Davis (208) 885-6745
Applied optics for liberal arts students
Computer; Electro-optics; Lasers; Physics

ID/EZ 194 ISEP
SER 76-13239
University of Idaho
College of Forestry
Moscow, ID 83843
John E. Mitchell
Instructional scientific equipment in earth sciences

ID/ZZ 195 LOCI/RULE
SER 76-14796
University of Idaho
College of Forestry
Moscow, ID 83843
John H. Schomaker (208) 885-7911
Computer modeling of wilderness recreation travel

ID/EN 196 ISEP
SER 77-12009
University of Idaho
Department of Chemical Engineering
Moscow, ID 83843
D. C. Sundberg (208) 885-6793
Improvement of analytical instrumentation and reactor equipment
Varian 3700 gas chromatograph
Hewlett Packard 3380A reporting integrator
Berty Carberry spinning basket reactor
Energy; Reactor; Chromatograph; Integrator; Analysis; Engineering

ID/CH 197 ISEP
SER 77-10824
University of Idaho
Department of Bacteriology and Biochemistry
Moscow, ID 83843
Duane Le Tourneau (208) 885-7014
Equipment for introductory biochemistry laboratory courses
Corning solid state pH meters 475000
Bausch and Lomb spectrophotometers Spectronic-21UVD
LKB fraction collector
LKB disc gel electrophoresis power supply 2121-010
LKB peristaltic pump 2115-001
Sorvall refrigerated centrifuge RC-5B
Sorvall centrifuge rotor SS-34
Sorvall centrifuge rotor GSA
Chemistry

ILLINOIS

IL/BZ 198 ISEP
SER 76-13808
Augustana College
Department of Biology
Rock Island, IL 61201
R. L. Turnquist (309) 794-7226
Hands-on approach to introductory physiology
Stoelting Physioscribes with stimulator
Benedict Roth metabolism apparatus
Palmer respiration pump
Non-science majors; Biology

IL/EN 199 ISEP
SER 77-11514
College of DuPage
Department of Engineering
Glen Ellyn, IL 60137
Robert Harvey
Instructional scientific equipment in engineering

IL/SZ 200 ISEP
SER 77-11046
De Paul University
Department of Sociology
Chicago, IL 60614
John P. Koval (312) 321-8237
Video techniques for qualitative analysis for undergraduate social sciences
Sony SLO-340 portable color recorder
Sony SLO-320 Betamax recorder
Sony DXC-1610 color portable camera
Sony RM-430 controller
Sony CVM-1250 color monitor and receiver
Audiovisual; Computer; Self-paced; Minority students; Women; Technician training; Television

IL/PH 201 ISEP
SER 77-11045
De Paul University
Department of Physics
Chicago, IL 60614
E. J. Schillinger (312) 321-8175
Human body physics laboratory for health sciences students
Beltone audiometers 9-0
Ballantine Dual Trace oscilloscopes 1010A
Pasco medical electronics modules BE series
Pasco physics modules PI series
Women; Technician training; Nursing students; Radiologic technology students; Medical technology; Medical instrumentation; Physical measurement; Allied health

IL/CH 202 ISEP
SER 76-13102
Governors State University
College of Environmental and Applied Science
Park Forest South, IL 60466
E. D. Cehelnik (312) 534-5000 Ext. 2402
Laboratory equipment for physical chemistry labs
Parr 1242 adiabatic bomb calorimeter
Parr 1451 solution calorimeter
Temp-Trol 74944 kinematic viscosity bath
Polyscience SR 6 polarimeter
Bausch and Lomb refractometer
Altex liquid chromatograph
Environment; Competency-based; Photochemistry; Analytical chemistry

IL/EN 203 ISEP
SER 77-10797
Illinois Institute of Technology
Department of Mechanics, Mechanical and Aerospace Engineering
Chicago, IL 60616
Andrew A. Fejer (312) 567-5734
Basic fluid mechanics laboratory for engineering students
Miniaturized table top experimental setups, Tecquipment
Flow channel, Tecquipment
Windtunnel, Aerolab Supply Co.
Fan test setup, Plint Engineers
Centrifugal circulating pump, Celenese
Competency-based; Self-paced; Interdisciplinary fluids laboratory

IL/IN 204 LOCI/RULE
SER 77-02331
Illinois State University
Department of Chemistry
Normal, IL 61761
Robert C. Duty (390) 438-2697
Structure determination using spectra and on-line bibliographic retrieval systems
Audiovisual; Computer; Chemistry; Library; Interdisciplinary

IL/IN 205 LOCI/RULE
SER 78-00321
Illinois State University
Department of Curriculum and Instruction
Normal, IL 61761
Tom Edwards (309) 438-5181
Improvement of teaching in science, mathematics, and social sciences
Energy; Environment; Pre-college teachers; Women; Non-science majors; Measurement and evaluation; Interdisciplinary; General science; Middle grade

IL/ZZ 206 LOCI/RULE
SER 76-14795
Knox College
Department of Philosophy
Galesburg, IL 61401
R. Lance Factor (309) 343-0112
Teaching philosophy of science with a laboratory
Audiovisual; Non-science majors; History of science; Ancient science; Birth of modern physics; Methodology of science

IL/PH 207 ISEP
SER 77-10965
Loyola University of Chicago
Department of Physics
Chicago, IL 60611
R. R. Bukrey Written inquiries only
Modern physics experiments for undergraduate physics majors
Pasco Scientific OS-9252 diffraction optics system
Hickoc EF-15 electrons and fields system
Ealing 32-2834 mass spectrometer
Modern optics; Atomic physics

IL/PS 208 ISEP
SER 76-12074
Loyola University of Chicago
Department of Psychology
Chicago, IL 60611
Richard R. Fay
Instructional scientific equipment in psychology

IL/BZ 209 ISEP
SER 77-11992
Loyola University of Chicago
Department of Biology
Chicago, IL 60611
John Janssen (312) 274-3000 Ext. 751
Techniques for studying the Lake Michigan biota and environment
Mako 23ft boat with 2 70 h.p. Mercury engines
Boston Whaler 17 ft boat 85 h.p. Mercury engine
Dodge 15 seat Maxivan
Environment; Aquatic ecology; Limnology; Biology

IL/PH 210 ISEP
SER 77-10855
Northeastern Illinois University

Department of Physics
Chicago, IL 60625
Charles Nissim-Sabat (312) 583-4050 Ext. 746
Electronics experiments for introductory physics laboratory
Health Schlumberger Power Supply SP-2710
Hewlett Packard 3311A function generator
Gould Inc. OS245A dual trace oscilloscope
Data Precision Inc. 1750 digital multimeter
Intermediate technology; Electronic measurements; Electronic circuits

IL/SZ 211 LOCI/RULE
SER 77-03094
Northern Illinois University
Department of Economics
DeKalb, IL 60115
John C. Soper (815) 753-1037
Multiple instructional innovations in introductory economics
Computer; Competency-based; Pre-college teachers; Non-science majors; Teaching information processing system; Teacher training program; Computer generated repeatable testing system; Computer managed instruction; Social sciences

IL/BZ 212 ISEP
SER 77-11234
North Park College and Theological Seminary
Department of Biology
Chicago, IL 60625
E. James Kennedy
Instructional scientific equipment in biology

IL/IN 213 ISEP
SER 77-11822
Northwestern University
Center for Statistics and Probability Education
Evanston, IL 60201
Meyer Dwass (312) 492-5083
Undergraduate statistics laboratory
DECWriter computer terminals with APL
Teleray CRT computer terminals with APL
Tektronix 4010-1 graphics computer terminal
Interface equipment for computer terminals
Computer; Non-science majors; Mathematics; Interdisciplinary

IL/PS 214 ISEP
SER 76-13849
Northwestern University
Department of Psychology
Evanston, IL 60201
Robert Sekuler
Instructional scientific equipment in psychology

IL/BZ 215 ISEP
SER 76-13542
Roosevelt University
Department of Biology
Chicago, IL 60605
Lester Y. Ichinose (312) 341-3676
Research equipment in autotutorial science teaching in undergraduate physiology
Hewlett Packard instrumentation tape recorder 3960A
Tektronix 4 trace oscilloscope 5103
Grass P16 a.c.-d.c. microelectrode preamplifier
Kopf stereotaxic instrument 900
Audiovisual; Intermediate technology; Self-paced; Peer group teaching; Biology

IL/CH 216 LOCI/RULE
SER 78-02884
Sangamon State University
Department of Physical Sciences
Springfield, IL 62708
William Bloemer (217) 786-6630
PLATO instruction in chemical instrumentation
Computer; Chemistry

IL/ZZ 217 LOCI/RULE
EPP 75-17573
Sangamon State University
Department of Biology
Springfield, IL 62708
R. W. Sames (217) 786-6614
Science and the public process
Illinois government; Executive government

IL/IN 218 LOCI/RULE
SER 77-02969
Shimer College
Department of Natural Science
Mount Carroll, IL 61053
Don Moon
Solar heated astronomical observatory for course on atomic theory

IL/PH 219 ISEP
SER 76-12152
Southern Illinois University at Carbondale
Department of Physics
Carbondale, IL 62901

Subir K. Bose (618) 536-2177
Senior laboratory in applied acoustics measurements with minicomputer assistance
Tektronix 4051 graphics minicomputer and 4662 plotter
Hewlett Packard 3580A spectrum analyzer
Anechoic chamber; Loudspeaker dispersion; Transducers; Vibration; Data analysis; Graphic display; Physics

IL/EZ 220 ISEP
SER 77-10295
Southern Illinois University at Carbondale
Department of Forestry
Carbondale, IL 62901
Carl A. Budelsky (618) 453-3341
Remote sensing for forestry students
Interpretations Systems Inc. VP-8 image analyzer 130
K and E digitizable planimeter and teletype printer
Bausch and Lomb zoom transfer scope ZT4-H
Bausch and Lomb stereo zoom transfer scope
Environment; Inventory of natural resources; Image enhancement; High altitude photography; Satellite imagery; Diagnostic use of electromagnetic spectrum; Land use planning; Pollution detection; Mineral exploration; Vegetational typing; Earth sciences

IL/EZ 221 LOCI/RULE
SER 78-00010
Southern Illinois University at Carbondale
Department of Forestry
Carbondale, IL 62901
Carl A. Budelsky (618) 453-3341
Introductory remote sensing for multidisciplinary and natural sciences students
Interpretations Systems Inc. VP-8 image analyzer 130
K and E digitizable planimeter and teletype printer
Bausch and Lomb zoom transfer scope ZT4-H
Bausch and Lomb stereo zoom transfer scope
Environment; Inventory of natural resources; Image enhancement; High altitude photography; Satellite imagery; Diagnostic use of electromagnetic spectrum; Land use planning; Pollution detection; Mineral exploration; Vegetational typing; Earth sciences

IL/BZ 222 LOCI/RULE
SER 78-00461
Southern Illinois University at Carbondale
Department of Zoology
Carbondale, IL 62901
George Garoian (618) 536-2314
Self-paced genetics, ecology, and systematics modules for general zoology
Audiovisual; Biology

IL/PS 223 ISEP
SER 76-12087
Southern Illinois University at Carbondale
Department of Psychology
Carbondale, IL 62901
Alfred Lit (618) 536-2301 Ext. 249
Perception laboratory apparatus for general undergraduate psychology teaching
Marietta Apparatus, stereoscope Wheatstone type 75A-19-2
Polymetric tachisto projector 1459 B2
Heath Schlumberger strip chart recorder SR-205
Lafayette Instrument multiple choice reaction time 63013
Marietta Apparatus sound cage 75A-16-1A
Grass Instrument portable polygraph 79-3
Non-science majors; Experimental biopsychology; Sensory testing; Psychophysics

IL/EZ 224 ISEP
SER 77-10710
Southern Illinois University at Carbondale
Department of Geology
Carbondale, IL 62901
John Sexton
Instructional scientific equipment in earth sciences

IL/CS 225 LOCI/RULE
SER 77-02523
Southern Illinois University at Carbondale
Department of Computer Science
Carbondale, IL 62901
Carol Lynn Smith/Kenneth J. Danhof (618) 536-2327
Pedagogical impact of microprocessor based computing systems
Intel SDK-8085 evaluation kit
Motorola 6800 D2 evaluation kit
Computer; Microcomputer; Computer science

IL/EN 226 ISEP
SER 76-13781
Southern Illinois University at Edwardsville
Department of Engineering and Technology
Edwardsville, IL 62026
Harlan H. Bengtson (618) 692-2500
Water analysis laboratory for environmental technology and engineering
Varian 1440 gas chromatograph
Varian 1000 atomic absorption spectrophotometer
Wastewater analysis; Chemistry; Environmental control

IL/CH 227 LOCI/RULE
SER 78-00891
Southern Illinois University at Edwardsville
Department of Chemistry
Edwardsville, IL 62026
Dennis D. Staley (618) 692-2042
Modular instruction in chemistry for underprepared learners
DECWriter II printer terminal LA-36-DE
Audiovisual; Computer; Self-paced

IL/EN 228 LOCI/RULE
SER 77-02978
Triton College
Department of Science and Engineering
River Grove, IL 60171
L. Brillhart (312) 456-0300 Ext. 300
Self-paced proficiency modules for teaching statics and dynamics labs
3M Sound Page recorder and player
Audiovisual; Computer; Competency-based; Engineering; Speakers

IL/IN 229 LOCI/RULE
SER 76-14569
University of Illinois
Department of Astronomy
Urbana, IL 61801
Ronald J. Bieniek (217) 333-3090
Self-paced multidisciplinary course for non-science majors afraid of science
Celestron International telescope C8
Beseler film loop viewer 2400
Metrologic laser Mi-650
Fisher Scientific Helios planetarium S45167F
Polaroid telescopically mounted camera SX-70
Competency-based; Self-paced; Non-science majors; Physics; Astronomy; History of science; Philosophy of science; Physical thought; Scientific creativity; PSI; Interdisciplinary

IL/BZ 230 LOCI/RULE
SER 78-00054
University of Illinois
Department of Microbiology
Urbana, IL 61801
Daniel D. Burke (217) 333-8813
Investigative laboratories in microbiology for non-science majors
Programmed learning; General education; Scientific method; Biology

IL/EN 231 LOCI/RULE
SER 78-00052
University of Illinois
Department of Chemical Engineering
Urbana, IL 61801
C. A. Eckert (217) 333-3634
Computer-based PLATO instruction in chemical engineering
PLATO V terminal
Problem solving; Graphics; Stoichiometry; Thermodynamics; Material balances; Energy balances; Staged processes; Reaction kinetics

IL/EN 232 LOCI/RULE
EPP 75-10117
University of Illinois
Department of Civil Engineering
Urbana, IL 61801
Jon C. Liebman (217) 333-6966
Self-paced introductory environmental engineering
Environment

IL/EN 233 LOCI/RULE
SER 77-02771
University of Illinois
Department of Electrical Engineering
Urbana, IL 61801
Walter H. Olson/Charles A. Cain (617) 253-1569 or (217) 333-7288
PLATO lesson modules for biomedical instrumentation
Computer; Self-paced; Computer simulations; Blood pressure transducer; Strain gage; Ultrasound Doppler; Instrument simulation; Signal processing; Computer graphics

IL/EN 234 ISEP
SER 76-12757
University of Illinois
Department of Bioengineering
Urbana, IL 61801
Walter H. Olson/Joseph M. Crowley (617) 253-1569 or (217) 333-4732
Biomedical transducers and instrumentation laboratory for undergraduate engineers
Gould Inc. chart recorders and medical instruments 2400
Tektronix Inc. portable patient monitor 414 Opt 04
Carolina Medical Electronics electromagnetic blood flowmeter 501
Millar Instruments catheter tip blood pressure transducer PC-550
Hewlett Packard d.c. defibrillator and trainer 7802D, 4653/4
Electrical safety; Spectral analysis; Blood gas analysis; Microcomputer; Heart sounds; Doppler ultrasonic flowmeter; Cardiac pacemaker; Electrocardiogram; Respiration; Biology

IL/BZ 235 LOCI/RULE
SER 76-14314
University of Illinois at Chicago Circle
Department of Biological Sciences
Chicago, IL 60680
Darrel L. Murray (312) 996-5450
Modular materials that assist biology students in investigation
Panasonic cassette recorder RQ303AVS
Self-paced; Non-science majors; Audio-tutorial; Kits; Technique modules; Ecology; Evolution; Independent study; Laboratory research; Field study

IL/EZ 236 ISEP
SER 76-12989
Western Illinois University
Department of Geology
Macomb, IL 61455
N. L. Archbold (309) 298-1151
Interdisciplinary program in powder X-ray diffraction
Phillips Norelco powder X-ray diffraction system
Intermediate technology; Technician training; Physics; Soil science; Chemistry; Metallurgy; Geology; Earth sciences; Geography

IL/SZ 237 ISEP
SER 77-10868
Western Illinois University
Department of Geography
Macomb, IL 61455
Robert T. Wilson (309) 295-1385
Environment oriented aerial photo interpretation laboratory for science majors
Bausch and Lomb zoom transfer scope
Bausch and Lomb stereo interpretation system for aerial photos
Environment; Remote sensing; Resource management; Site analysis; Interdisciplinary

INDIANA

IN/PH 238 ISEP
SER 76-13790
Ball State University
Department of Physics
Muncie, IN 47306
Paul Errington
Physics for life sciences update
Tektronix storage oscilloscope 5111
Tektronix spectrum analyzer 5L4N
Tektronix function generator FG-501
Audiovisual; Non-science majors

IN/ZZ 239 LOCI/RULE
SER 78-00064
Ball State University
Department of Physics and Astronomy
Muncie, IN 47306
Ralph L. Place (317) 285-6260
Courseware for microprocessor and microcomputer instruction
Intermediate technology; Continuing education; Physics; Applied physics

IN/CH 240 ISEP
SER 76-13535
Goshen College
Department of Chemistry
Goshen, IN 46526
Arthur A. Smucker (219) 533-3131 Ext. 296
Atomic absorption spectrophotometer for analytical chemistry and advanced projects
Instrumentation Laboratory atomic absorption spectrophotometer 251
Instrumentation Laboratory flameless atomizer 555
Intermediate technology; Premedical study; Biology; Medical technology

IN/PH 241 ISEP
SER 76-12082
Huntington College
Department of Chemistry and Physics
Huntington, IN 46750
Gerald D. Smith (219) 356-6000 Ext. 79
Basic radiation detection equipment for undergraduate physics instruction
Bicron 2M2 scintillation detector
Ortec NIM modules for SCA
Nuclear Instruments GFC 100 windowless flow counter
Baird atomic survey meter
Reactor experiments 801 Digi Master
Technician training

IN/PH 242 ISEP
SER 77-10708
Indiana State University
Department of Physics
Terre Haute, IN 47809
John A. Swez (812) 232-6311 Ext. 5458
Teaching of thermoluminescent dosimetry of environmental radiation
Harshaw Co. 2000C TLD system
Environment; Non-science majors; Physics

IN/BZ 243 ISEP
SER 76-12972
Indiana State University Evansville Campus
Department of Science and Mathematics

Evansville, IN 47712
Marlene V. Shaw (812) 464-1701 or 464-1709
Undergraduate experience using modern instrumental techniques in molecular biology
Beckman refrigerated centrifuge J21C and rotors
Beckman SW27 swinging bucket rotor for model L centrifuge
ISCO Golden Retriever linear fraction collector
Buchler disc gel electrophoresis apparatus
Gelman electrophoresis chamber
Self-paced; Cell fractionation; Laboratory

IN/EZ 244 ISEP
SER 77-10764
Indiana University
School of Public and Environmental Affairs
Bloomington, IN 47401
A. K. Bergh
Instructional scientific equipment in earth sciences

IN/CS 245 ISEP
SER 76-14523
Indiana University
Department of Computer Science
Bloomington, IN 47401
John F. Buck (812) 337-7979
Large screen interactive displays in teaching computer languages
General Electric PJ5000 television projector
Audiovisual; Computer science

IN/EZ 246 LOCI/RULE
SER 77-02303
Indiana University
Department of Geology
Bloomington, IN 47401
Thomas E. Hendrix (812) 337-8392
Investigative introductory geology course in the field in Montana
Environment; Self-paced; Non-science majors; Earth sciences

IN/BZ 247 ISEP
SER 76-12952
Indiana University East
Department of Biology
Richmond, IN 47374
Rosalie Akey (317) 966-8261 Ext. 243
Self-paced modules for anatomy and physiology courses
Turtox human torso model
Turtox assorted skeletal materials
Turtox human tissue slides
Bausch and Lomb micro projector
Audiovisual; Computer; Non-science majors; Nursing support courses; Biology

IN/CH 248 ISEP
SER 76-12994
Indiana University-Purdue University at Fort Wayne
Department of Chemistry
Fort Wayne, IN 46805
Stephen I. Sallay (219) 482-5578
Nuclear magnetic resonance spectrometry in undergraduate teaching and research
Hitachi Perkin Elmer NMR spectrometer R-24-B
Competency-based; Organic chemistry; Medicinal chemistry; Food additives; Fatty acid derivatives; Peptides; Cancer research

IN/MA 249 LOCI/RULE
SER 77-02454
Indiana University-Purdue University at Fort Wayne
Department of Mathematical Sciences
Fort Wayne, IN 46805
Rudy G. Svoboda (219) 482-5677
Audio-tutorial minicourses for college algebra and trigonometry
Self-paced; Teacher paced; Individualized instruction; Peer tutors; Mathematics

IN/BZ 250 LOCI/RULE
SER 78-00168
Oakland City College
Department of Biology
Oakland City, IN 47560
Lyman H. O'Neal
Local ecosystem approach to an ecology course

IN/ZZ 251 ISEP
SER 77-10984
Purdue University
Department of Agronomy
West Lafayette, IN 47907
James L. Ahlrichs (317) 749-2891
Resource center and laboratory experience program development
Environmental growth chamber M-13
Perkin Elmer atomic absorption spectrophotometer 373
Intertech Corp. carbon dioxide infrared gas analyzer URAS-2
Motomco portable grain moisture tester
Video tape player JVC 5200 and video monitor
Sankyo Super 8 sound movie camera and projector
Variable Speech Control Co. tape recorder speech compressor
Wollensak tape recorder 2520 AV
Technicolor super 8 film loop projector 820Z
Giddings hydraulic soil coring and sampling machine GSRP-S-M
Hoefer Scientific photosynthetic chamber
DECWriter II computer terminal LA36
Audiovisual; Agronomy; Soil and crop science

IN/EN 252 ISEP
SER 77-10986
Purdue University
Department of Electrical Engineering
West Lafayette, IN 47907
Frederic J. Mowle (317) 493-9253
Microprocessor laboratory
Intel Prompt 80
Intel MDS 80
Southwest Technical Product 6800
Centronics microprinter P-1
Houston Instrument line printer 8210
Computer; Engineering

IN/EN 253 LOCI/RULE
SER 77-02411
Purdue University
Department of Electrical Engineering
West Lafayette, IN 47907
Frederic J. Mowle (317) 493-9253
Junior level microprocessor laboratory and course
Intel Prompt 50
Computer; Engineering

IN/EN 254 LOCI/RULE
SER 78-00347
Purdue University
Department of Industrial Engineering
West Lafayette, IN 47907
Shimon Y. Nof (317) 493-0526
Automated industrial facility simulator laboratory
Fischer Technik toy parts
Hewlett Packard logic lab 5035T
Computer; Industrial engineering students; Computer control projects; Facility planning courses; Freshman engineering demonstrations; Industrial control experiments; Engineering

IN/ZZ 255 ISEP
SER 77-10985
Purdue University
Department of Foods and Nutrition
West Lafayette, IN 47907
Leslie G. West (317) 493-1258
Improvement in nutrition, food science, and dietetics laboratory
Toxichron drug analyzer system
Gelman densitometer DCD 16
IEC refrigerated centrifuge 6000

IN/CH 256 ISEP
SER 76-12927
Purdue University Calumet Campus
Department of Chemistry
Hammond, IN 46323
Alan K. Roebuck
Instructional scientific equipment in chemistry

IN/EN 257 LOCI/RULE
SER 78-00712
Rose-Hulman Institute of Technology
Department of Humanities, Social, and Life Sciences
Terre Haute, IN 47803
Wilford P. Stratten (812) 877-1511 Ext. 233
Introduction to environmental concepts for engineers
Sony CCP-13 portable cassette recorder
Singer Caramate slide sound projector 8805
Self-paced; Continuing education; Industrial input; Regional emphasis; Engineering

IN/EN 258 ISEP
SER 77-10373
Rose-Hulman Institute of Technology
Department of Civil Engineering
Terre Haute, IN 47803
Martin J. Thomas
Instructional scientific equipment in civil engineering

IN/IN 259 ISEP
SER 77-10290
Rose-Hulman Institute of Technology
Department of Physics
Terre Haute, IN 47803
Jerome F. Wagner (812) 877-1511 Ext. 306
Development of solid state laboratory for undergraduate electrical engineers
Ithaco Dynatrac 3 lock-in analyzer 393
Ithaco ratiometer option 02
Ithaco light beam chopper 383
Princeton Applied Research boxcar integrator CW-1
Charles Supper Co. Weissenberg Camera 9000ST
Intermediate technology; Self-paced; Physics; Experimental training; Crystal structure; Semiconductor device; Optical phenomena; Interdisciplinary

IN/SZ 260 LOCI/RULE
SER 78-00065
Saint Joseph's College
Department of Economics
Rensselaer, IN 47978
Robert Schenk (219) 866-7111
Computer assisted economics lessons
Self-paced; Non-science majors; Social sciences

IN/CH 261 LOCI/RULE
SER 76-14590
Taylor University
Department of Chemistry
Upland, IN 46989
Stanley L. Burden (317) 998-2751 Ext. 272
Single instructor multilevel instruction for low enrollment courses
Audiovisual; Computer; Competency-based; Self-paced; Non-science majors; Personalized instruction; Scientific instrumentation; Electronics; Minicomputers; Microcomputers; Physiology; Chemistry

IN/EN 262 ISEP
SER 76-13708
Tri-State University
Department of Chemical Engineering
Angola, IN 46703
W. Henry Tucker
Instructional scientific equipment in chemical engineering

IN/CH 263 ISEP
SER 76-13664
University of Evansville
Department of Chemistry
Evansville, IN 47702
Vernon R. Shaw (812) 479-2037
High pressure liquid chromatography teaching tool for undergraduate chemistry
Perkin Elmer liquid chromatograph 601
Perkin Elmer chromatograph detector LC55
Environment; Intermediate technology; Technician training; Premedical majors; Biology majors; Medical technology; Chromatographic theory; Clinical analysis

IN/EN 264 LOCI/RULE
SER 77-03140
University of Notre Dame
Department of Civil Engineering
Notre Dame, IN 46556
Lloyd H. Ketchum, Jr. (219) 283-3709 or 283-6173
Engineering design learned using computers and microprocessor simulated plants
Microprocessor
Computer; Environment; Wastewater; Water; Treatment; Operator; Sewage treatment

IN/EN 265 LOCI/RULE
SER 78-00429
University of Notre Dame
Department of Aerospace and Mechanical Engineering
Notre Dame, IN 46556
John Lucey (219) 283-7381
Energy option in mechanical engineering

IN/EN 266 ISEP
SER 76-12033
University of Notre Dame
Department of Electrical Engineering
Notre Dame, IN 46556
James L. Melsa (219) 283-7531
Computer hardware and microcomputer systems laboratory
Control Logic M-series development systems
Infoton CRT terminals
Centronics printer 306
Sykes dual floppy disk 7000
PRO-LOG series 92 PROM programmer
Digital; Microprocessor; Engineering

IN/EN 267 ISEP
SER 77-09655
Valparaiso University
Department of Civil Engineering
Valparaiso, IN 46383
A. Sami El-Naggar (219) 464-5173
Senior level environmental air pollutants sampling and monitoring course
Monitor Labs nitrogen oxides monitor
Beckman carbon monoxide monitoring system
Monitor Labs sulfur dioxide monitor
RAC 3 gas sampler
RAC high volume sampler
Environment; Chemistry majors; College of nursing; Mechanical engineering; High school short courses; Industry supported courses; Engineering

IN/EN 268 ISEP
SER 77-11197
Valparaiso University
Department of Mechanical Engineering
Valparaiso, IN 46383
William Schoech (219) 464-5102
Nondistructive ultrasonic, magnetic-particle, penetrant, and radiographic testing of materials
Magnaflux PS-702 ultrasonic test instrument
Magnaflux KH-15 magnetic particle tester
ASTM E155 and E390 radiograph standards
Magnaflux Magnaglo kit
Engineering

IN/EN 269 LOCI/RULE
SER 77-02524
Valparaiso University
Department of Mechanical Engineering
Valparaiso, IN 46383
William Schoech (219) 464-5102
Computer integrated teaching modules for engineering design and manufacturing
Tektronix 4662 plotter
Tektronix PLOT 10 software
Computer; Self-paced; Mechanical engineering; Industrial engineering; Computer software; Computer graphics

IOWA

IA/MA 270 LOCI/RULE
SER 76-14498
Central University of Iowa
Department of Mathematics
Pella, IA 50219
Leland D. Graber (515) 628-4201 Ext. 445
Modularizing an elementary statistics course for behavioral science students
Competency-based; Self-paced; Non-science majors; Alternative learning style; Pacing flexibility; Written study guides; Mathematics

IA/MA 271 LOCI/RULE
SER 77-02404
Clarke College
Department of Mathematics
Dubuque, IA 52001
Carol Spiegel (319) 588-6395
Initiation of a review and remedial math clinic
Texas Instruments programmable calculator and printer TI-58
Singer filmstrip projector 400
Audiovisual; Self-paced; Math anxiety; Mathematics

IA/IN 272 LOCI/RULE
EPP 75-15091
Coe College
Department of Biology, Anthropology, Psychology, Political Science
Cedar Rapids, IA 52402
Fred H. Willhoite (319) 398-1557
Inaugurating a biosocial science program at Coe College
Interdisciplinary

IA/CH 273 ISEP
SER 77-10754
Des Moines Area Community College
Department of Mathematics and Science
Ankeny, IA 50021
Patrick M. Garvey (515) 964-6292
Nuclear magnetic resonance spectroscopy in undergraduate organic chemistry laboratory
Varian EM-360A nuclear magnetic resonance spectrometer

IA/MA 274 ISEP
SER 76-13012
Drake University
Department of Mathematics
Des Moines, IA 50311
Michael Folk (515) 271-2855
Computer management and test generation for self-paced precalculus
Execuport portable computer terminal 383 with APL
Beehive 100 CRT computer terminal
Diablo 1620 microprocessor driven computer terminal
Diablo 1620 microprocessor driven computer terminal

IA/PH 275 LOCI/RULE
SER 78-00136
Grinnell College
Department of Physics
Grinnell, IA 50112
Charles Duke (515) 236-6181 Ext. 300
Electronics course based on integrated circuits
Computer; Non-science majors; Physics

IA/BZ 276 ISEP
SER 76-13707
Grinnell College
Department of Biology
Grinnell, IA 50112
Irene M. Jones (515) 236-6181 Ext. 541
Acquisition of liquid scintillation counter and allied equipment
Beckman 100C liquid scintillation counter
Sartorius analytical balance SR2462
Biology

IA/BZ 277 ISEP
SER 77-10793
Iowa State Universisty of Science and Technology
Department of Zoology
Ames, IA 50010
Charles D. Drewes (515) 294-8061
Expansion and improvement of physiology laboratory courses in zoology
Tektronix 5000 storage oscilloscopes
Coleman 51 CA flame photometer
Applied Electrochemistry Inc. oxygen analyzer S-3A
VWR Scientific, Advanced Instruments 3W osmometer
VWR Scientific, Houston Omniscribe chart recorders
Biology

IA/IN 278 LOCI/RULE
SER 78-00155
Iowa State University of Science and Technology
Department of Aerospace Engineering
Ames, IA 50010
C. T. Hsu (515) 294-6873
Tornado flow theory
Environment; Atomospheric vortex; Weather

IA/EN 279 LOCI/RULE
SER 78-00298
Iowa State University of Science and Technology
Department of Chemical Engineering
Ames, IA 50010
Kenneth R. Jolls (515) 294-5222
Computer generated phase diagrams in thermodynamaics education
Audiovisual; Computer; Graphics; 3-D; Teaching aids; Visual aids; Surfaces; Pictorials; Engineering

IA/EN 280 ISEP
SER 76-13017
Iowa State University of Science and Technology
Department of Enginneering Science and Mechanics
Ames, IA 50010
Bruce R. Munson (515) 294-7234
Introductory fluid mechanics for engineers
Aerolab educational wind tunnel
C.A.A. pump turbine instructional set G/GH53
Scott Armfield air distribution system 9007-1
Scott Armfield fluid circuit system 9009
Scott Armfield hydrostatics system 9092
Civil engineering; Hydraulics; Agricultural engineering; Engineering

IA/ZZ 281 LOCI/RULE
SER 77-02816
Iowa State University of Science and Technology
Department of Physics
Ames, IA 50010
Lee Anne Willson (515) 294-6765
Planetarium laboratory for non-science major astronomy course
Viewlex Co. Apollo III planetarium projector and dome

IA/CS 282 ISEP
SER 76-13015
Iowa State University of Science and Technology
Department of Computer Science
Ames, IA 50010
Charles T. Wright, Jr.
Instructional scientific equipment in computer science

IA/ZZ 283 ISEP
SER 76-13992
Kirkwood Community College
Department of Environmental Health
Cedar Rapids, IA 52406
Charles Bardonner (319) 398-5677
Instructional equipment for Kirkwood's activated sludge training program
International clinical centrifuge, trunnion, and sleeves IEC 221.428.303
O'Haus balance 6010PC
Mettler top loader balance P1210
Coleman spectrophotometer 55
Circo automatic sampler MK-VS7
Welch vacuum pump 370-379
Environment; Sewage disposal; Technician training

IA/PH 284 LOCI/RULE
SER 77-02795
Luther College
Department of Physics
Decorah, IA 52101
Dennis Barnaal (319) 387-1225
Texts and labs for minicourses in electronics for scientists
KIM microprocessor trainers
Computer; Intermediate technology; Scientific instrumentation; Operational amplifiers; Digital logic; Microprocessors; Minicourse textbooks; Physics

IA/PH 285 ISEP
SER 77-12069
Luther College
Department of Psychology
Decorah, IA 52101
Werner Nitschke
Data acquistion system for acoustic vibration and bioelectrical analysis
B and K Instruments measuring amplifier 2608A
Kay Elemetrics Sona-Graph 6061B
Biomation waveform recorder 805
Hewlett Packard instrumentation recorder 3964A
IMS Associates microprocessing unit 8080
Computer; Physics; Biology; Psychology

IA/MA 286 ISEP
SER 76-12976
Marshalltown Community College
Department of Mathematics
Marshalltown, IA 50158
Donald Benbow
Instructional scientific equipment in mathematics

IA/MA 287 LOCI/RULE
SER 77-03379
Marshalltown Community College
Department of Mathematics
Marshalltown, IA 50158
Don Benbow (515) 752-7106
Exploiting programmable calculators and plotter combinations
Mathematics

IA/PH 288 ISEP
SER 76-13182
University of Iowa
Department of Physical Education
Iowa City, IA 52242
James G. Hay
Instructional scientific equipment in physics

IA/PS 289 LOCI/RULE
SER 77-02986
University of Iowa
Department of Physical Education
Iowa City, IA 52242
J. A. Scott Kelso (319) 353-4117
Process approach to understanding human perceptual and motor behavior
Kodak slide projector and screen
Sony tape recorder TC-44
Lanier Edisette dictaphone
Audiovisual; Pre-college teachers; Psychology; Physical education; Physical therapy; Lecture series

IA/SZ 290 ISEP
SER 76-13177
University of Iowa
Department of Geography
Iowa City, IA 52242
Gerard Rushton (319) 353-3131
Computer cartography in undergraduate geography
PDS4 IMLAC minicomputer
Graf pen digitizer
Self-paced; Planning; Geo-coding; Locational analysis; Social sciences

IA/SZ 291 LOCI/RULE
SER 78-00191
University of Iowa
Department of Geography
Iowa City IA 52242
Gerard Rushton (319) 353-3131
Locational analysis in undergraduate geography and urban planning
Computer; Competency-based; Self-paced; Regional science; Operations research; Social sciences

IA/SZ 292 LOCI/RULE
SER 78-00701
University of Iowa
Laboratory for Political Research
Iowa City IA 52242
William Welsh (319) 353-3422
Adaptive evaluation structure for computer based instruction
Political; Competency-based; Self-paced; Political science; Social sciences; Tutorials; Cognitive mapping; Data analysis packages; Logical skills

IA/PH 293 ISEP
SER 76-12668
University of Northern Iowa
Department of Physics
Cedar Falls, IA 50613
Francis Vilmain (319) 273-2431
Up-grading electronics courses
Analog digital designer ADD-8000
Heath oscilloscope SO-4550
Intermediate technology; Physics

KANSAS

KS/CH 294 ISEP
SER 76-12791
Bethany College
Department of Mathemetical and Physical Sciences
Lindsborg, KS 67456
M. L. Mitchell (913) 227-3311 Ext. 152

Computer graphics in physical science classes
Tektronix 4006-1 computer display terminal
Tektronix 4631 hard copy unit
Audiovisual; Lecture support; Laboratory support; Simulation; Chemistry

KS/BZ 295 ISEP
SER 76-12748
Dodge City Community Junior College
Department of Science and Mathematics
Dodge City, KS 67801
Gary F. Rodrick (316) 225-1321 Ext. 238
Biology and chemistry for science and non-science majors
Infrared spectrophotometer
Physiograph
Continuing education

KS/MA 296 ISEP
SER 77-09823
Fort Hays Kansas State College
Department of Mathematics
Hays, KS 67601
E. Beougher (913) 628-4240
Portable minicomputer
Wang 2200 PCS portable computing system
Wang 2231-W-1 line printer
Audiovisual; Pre-college teachers; Mathematics

KS/CH 297 ISEP
SER 77-11722
Fort Hays Kansas State College
Department of Chemistry
Hays, KS 67601
L. M. Nicholson (913) 628-5321
Improvement of undergraduate laboratory instruction in biochemistry
Sorvall automatic superspeed refrigerated centrifuge RC-5B
Braun Thermomix shaking water bath
Chemistry

KS/PH 298 ISEP
SER 76-12124
Fort Hays Kansas State College
Department of Physics
Hays, KS 67601
Maurice H. Witten (913) 628-4271
Up-grading of undergraduate junior and senior physics laboratory
Jarrel Ash one-fourth meter Ebert monochromator 82-410
Jarrel Ash monochromator step motor scan drive 82-462
Tracor Northern 1024 channel puls height analyzer TN-1705
Tracor Northern A SR-33 teletype N-1102
Hewlett Packard 8.5in. by 11in. recorder 7034A
Pre-college teachers; Optics experiments; Modern physics experiments

KS/ZZ 299 ISEP
SER 77-11038
Friends University
Department of Natural Science
Wichita, KS 67213
G. R. Dove (316) 263-9131 Ext. 281
Computer-assisted undergraduate research seminar in natural science
Digital Equipment corp. DECWriter terminal LA36
Hewlett Packard optical scan card reader
Hewlett Packard graphic plotter
Computer; Statistics; Basic language

KS/EN 300 ISEP
SER 76-13877
Kansas State University of Agriculture and Applied Science
Department of Engineering Technology
Manhattan, KS 66506
K. K. Gowdy (913) 532-5617
Food engineering technology laboratory for four year program
Fisher 21 surface tensiometer
IEC B-20A refrigerated centrifuge Fisher 5-431-1
Vertis 10-145-MRBA freeze dryer base and drying chamber
Amicon DC-30 ultrafiltration cell
Dynatch TCHM-DV thermal measurement system
Dixie retort and sealer RDSW-3 and SD-H-23
TI LPM multipoint recorder system
Burrows 2650 vertical mixer
W-W roller mill with motor
De Laval gyro tester
Rheological properties; Thermal properties; Sterilization; Evaporation; Freeze drying; Solvent extraction; Adsorption; Ultrafiltration; Mixing; Fermentation

KS/BZ 301 ISEP
SER 76-13873
Kansas State University of Agriculture and Applied Science
Department of Biology
Manhattan, KS 66506
Michael P. Johnson (913) 532-6618
Computer simulated populations for demography, Ecology, evolution, population management
PDP 11/34 computer system
Tektronix 4014-1 graphics terminal
Energy; Environment; Self-paced; Non-science majors; Sociology; Wildlife management; Fisheries management; Pest management; Genetics; Predator and prey; Competition; Population sampling; Biology

KS/ZZ 302 ISEP
SER 77-10484
Kansas State University of Agriculture and Applied Science
Department of Clothing, Textiles and Interior Design
Manhattan, KS 66506
Barbara M. Reagan (913) 532-6993
Spectroscopy and colorimetry laboratory for college textile science program
Hunterlab D25M-4 colorimeter
Cary 219 uv/visible spectrophotometer
Perkin Elmer infrared spectrophotometer 297
Tektronix 31 programmable calculator

KS/EN 303 ISEP
SER 77-11607
Kansas Sate University of Agriculture and Applied Science
Department of Mechanical Engineering
Manhattan, KS 66506
J. Garth Thompson (913) 532-5610
Use of microprocessors in automatic control systems
Digital Group Co. Z-80 microprocessor systems
Tektronix oscilloscope T922
Interstate Electronics Corp. function generators F41
Dynascan Corp. digital multimeter 283
E and L Instruments breadboards IV K
Computer; Energy; Automatic controls; Microprocessors; Digital computer controls; Instrumentation; Engineering

KS/EN 304 LOCI/RULE
SER 77-03112
Kansas State University of Agriculture and applied Science
Department of Mechanical Engineering
Manhattan, KS 66506
J. Garth Thompson (913) 532-5610
Use of microprocessors in automatic control systems
Digital Group Co. Z-80 microprocessor systems
Tektronix oscilloscope T922
Interstate Electronics Corp. function generator F41
Dynascan Corp. digital multimeter 283
E and L Instruments breadboards IV K
Computer; Energy; Automatic controls; Microprocessors; Digital computer controls; Instrumentation; Engineering

KS/BZ 305 LOCI/RULE
EPP 75-23219
Kansas State University of Agriculture and Applied Science
Department of Biology
Manhattan, KS 66506
Jame E. Urban/John Eads
Development of an individualized laboratory course in microbiology

KS/CS 306 LOCI/RULE
SER 77-03372
University of Kansas
Department of Computer Science
Lawrence, KS 66045
Richard G. Hetherington (913) 864-4028
Computer-based laboratory for introductory numerical analysis
Numerical experimentation; Computer science

KS/PS 307 LOCI/RULE
SER 78-00469
University of Kansas
Department of Human Development and Family Life
Lawrence, KS 66045
Frances Degen Horowitz (913) 864-4840 or 864-3665
Video-taped observation exercises of infant behavior and developmeent
Panosonic color video monitor for cassette tapes
Audiovisual; Child development; Psychology

KS/EN 308 ISEP
SER 77-11231
University of Kansas
Department of Electrical Engineering
Lawrence, KS 66045
Gerry L. Kelly
Instructional scientific equipment in electrical engineering

KS/CH 309 ISEP
SER 77-11919
University of Kansas
School of Pharmacy
Lawrence, KS 66045
R. A. Wiley (913) 864-3267
State-of-the-art instrumentation in drug analysis courses
Varian uv-vis spectrophotometer 219
Perkin Elmer liquid chromatograph series 2/1
Intermediate technology; Women; Pharmacy; Chemistry

KS/EN 310 LOCI/RULE
SER 77-02451
Witchita State University
Department of Mechanical Engineering
Wichita, KS 67208
J. A. Alic (316) 689-3402

Design projects for freshman engineering
Case studies; Guided design

KS/SZ 311 ISEP
SER 77-10464
Wichita State University
Department of Social Science
Wichita, KS 67208
James Sheffield (316) 689-3165
Equipping a social science laboratory
Remote batch entry station IBM 3780
Programmable calculators and printer Texas Instruments SR-58, SR-59, DC 100A
Cathode ray terminals
Computer

KENTUCKY

KY/PS 312 ISEP
SER 77-10994
Centre College of Kentucky
Department of Psychology
Danville, KY 40422
Brent C. White (606) 236-5211 Ext. 302
EEG, operant conditioning, and histofluorescence equipment for undergraduate psychology
Coulbourn Instruments EEG filters S75-14 through 18
Coulbourn Instruments precision bipolar comparators S21-06
Virtus Engineering automatic freeze dryer 10-010
Psychobiology

KY/PS 313 LOCI/RULE
SER 78-00697
Centre College of Kentucky
Department of Psychology
Danville, KY 40422
Brent C. White (606) 236-5211 Ext. 302
Problem-solving labs for undergraduate personality, perception, and physiological psychology

KY/PH 314 LOCI/RULE
SER 77-02337
Eastern Kentucky University
Department of Physics
Richmond, KY 40475
Jerry Faughn (606) 622-2470
Computer tutorial programs in physics

KY/BZ 315 ISEP
SER 77-10784
Eastern Kentucky University
Department of Biological Sciences
Richmond, KY 40475
Sanford L. Jones (606) 622-2705 or 622-2212
Methodologies in endocrinology, physiology, and virology requiring ultracentrifugation
Beckman L5-50 ultracentrifuge
Environment; Competency-based; Technician training; Hormone binding protein; Subcellular organelles; Protein synthesis; Membranes; Density gradient; Biology

KY/CH 316 ISEP
SER 76-13855
Georgetown College
Department of Chemistry
Georgetown, KY 40324
John R. Blackburn (502) 863-8468
Instrumental analysis capabilities improvement for undergraduates
Mass spectrometer Varian EM-600
Gas sampling adaptor for EM-600
Direct probe accessories for EM-600
Intermediate technology; Non-science majors; Technician training; Chemistry

KY/CH 317 ISEP
SER 76-13855
Georgetown College
Department of Chemistry
Georgetown, KY 40324
Wayne S. Hanley
Instructional scientific equipment in chemistry

KY/CH 318 LOCI/RULE
SER 78-00154
Kentucky Wesleyan College
Department of Chemistry
Owensboro, KY 42301
Robert Flachskam (502) 926-3111
Development of an undergraduate biochemistry laboratory course

KY/PH 319 ISEP
SER 76-13857
Kentucky Wesleyan College
Department of Physics
Owensboro, KY 42301
Ray C. Purdom
Instructional scientific equipment in physics

KY/CH 320 ISEP
SER 76-13490
Murray State University
Department of Chemistry
Murray, KY 42071
Harry Conley (502) 762-2584
Mass spectrometer and NMR for undergraduate chemistry laboratories
Varian EM-300X NMR spectrometer
Varian EM-600 medium resolution mass spectrometer
Pre-college teachers; Technician training; Instrument availability

KY/PS 321 ISEP
SER 77-11515
Murray State University
Department of Psychology
Murray, KY 42071
Tom Posey (502) 762-2851
Laboratory equipment teaching perception, operant conditioning, psychobiology, and statistics
Gerbrands Co. Harvard tachistoscope
Kopf Co. sterotaxic instruments
Lafayette Co. operant chambers
Lear Siegler ADM-3A computer terminals
Gerbrands Co. clock counter
Computer; Experimental psychology; Human learning; Animal learning; Animal surgery; Physiological psychology

KY/EN 322 ISEP
SER 76-13489
Murray State University
Department of Engineering Technology
Murray, KY 42071
James G. Weatherly (502) 762-3393
Electric machinery laboratory for four-year electrical engineering technology program
Hampden Engineering Corp. electric machinery equipment
Hewlett Packard X-Y plotter 7015A
Hewlett Packard oscillographic recorder 7402A
Tektronix oscilloscope T922
Tektronix oscilloscope camera C5A
Electric power option; Electromechanical option

KY/CH 323 ISEP
SER 77-11023
Northern Kentucky University
Department of Physical Sciences
Highland Heights, KY 41076
William R. Oliver (606) 292-5411
Mass spectrometer for undergraduate chemistry instruction
Varian mass spectrometer EM-600

KY/PH 324 ISEP
SER 77-10820
Thomas More College
Department of Physics
Fort Mitchell, KY 41017
David Boyle
Computer-assisted physics for non-science majors, and advanced laboratory equipment
Apple-II microcomputer
Austin Scientific S-700 tape drive with K-3E motor
Ealing 13-2209 large air gyroscope
Digital Equipment Corp. VT52-AA terminal
Hewlett Packard 680 chart recorder
Audiovisual

KY/CH 325 LOCI/RULE
SER 78-00343
Thomas More College
Department of Chemistry
Fort Mitchell, KY 41017
Gerald R. Franzen
Audiovisual programs for organic chemistry laboratory techniques

KY/CH 326 ISEP
SER 76-13570
Thomas More College
Department of Chemistry
Fort Mitchell, KY 41017
Mary C. Mueller
Lock decoupler accessory for NMR in chemistry labs
Varian EM-3630 lock decoupler for EM-360 NMR spectrometer
Competency-based; Self-paced; Technician training

KY/EN 327 ISEP
SER 76-13941
University of Louisville
Department of Electrical Engineering
Louisville, KY 40208
D. L. Chenoweth (502) 588-6289
Microprocessor design laboratory
Tektronix 7D01 logic analyzer with DF-1 formatter
Hewlett Packard 1600A logic analyzer
E. L. Instruments Elite 3 breadboarding system
Motorola M6800 microprocessor evaluation kit
Intel 8080A microprocessor evaluation kit

Computer; Microcomputer; Microelectronics; Engineering

KY/EN 328 LOCI/RULE
SER 77-14548
University of Louisville
Department of Electrical Engineering
Louisville, KY 40208
Thomas G. Cleaver (502) 588-6312
Improvement of instruction through the semi-paced teaching method
Competency-based; Self-paced; Engineering; Electrical engineering; Electricity; Magnetism; Behavioral objectives

KY/EZ 329 ISEP
SER 76-14019
Western Kentucky University
Department of Geography and Geology
Bowling Green, KY 42101
S. Reza Ahsan (502) 745-4555 or 745-4557
Graphic terminal for instruction in cartographic and mapping techniques
Tektronix graphic terminal
Tektronix hard copy unit
Computer; Environment; Intermediate technology; Technician training; Cartography; Geography; Symap; Geology; Drafting; Surveying; Earth science

KY/EZ 330 ISEP
SER 76-13200
Western Kentucky University
Department of Geology
Bowling Green, KY 42101
C. R. Seeger (502) 745-4555
Worden gravity meter purchase for geology and geophysics
Texas Instruments Worden gravity meter prospector standard model
Energy; Environment; Earth sciences

LOUISIANA

LA/BZ 331 ISEP
SER 77-11047
Delgado College
Department of Science
New Orleans, LA 70119
Raymond J. Garrity (504) 486-7393 Ext. 250
Activity based format for anatomy and physiology laboratory
Competency-based; Self-paced; Non-science majors; Biology

LA/PH 332 LOCI/RULE
SER 77-03088
Grambling State University
Department of Physics
Grambling, LA 71245
Mark A. Cross (318) 247-6941 Ext. 381
Physics lab for biologists
Minority students; Electronics; Computer

LA/BZ 333 LOCI/RULE
SER 78-00013
Louisiana State University at Eunice
Department of Sciences
Eunice, LA 70535
Charles C. Faust (318) 457-7311 Ext. 44
Human anatomy and introductory biology for two-year allied health
Carolina disarticulated human skeleton 24-6740
Nasco life-form human shoulder stage one LF 765L
Nasco life-form human lower extremity stage one LF 822L
Technician training; Nursing; Respiratory therapy

LA/CH 334 ISEP
SER 76-11407
Louisiana State University in Shreveport
Department of Chemistry
Shreveport, LA 71115
Ronald A. Martin (318) 865-7121 Ext. 227
Nuclear magnetic resonance instruction for organic-analytical chemistry laboratories
Perkin Elmer nuclear magnetic resonance spectrometer R12B
Intermediate technology; NMR; Analytical chemistry

LA/CH 335 LOCI/RULE
SER 77-02389
University of New Orleans
Department of Chemistry
New Orleans, LA 70122
Larry G. Hargis (504) 283-0311
Project-oriented instruction in electronics and computer interfacing for chemists
E and L ADAM circuit design and test system
Competency-based; Self-paced; Automation; Chemistry

LA/EN 336 ISEP
SER 76-12145
Louisiana Tech University
Department of Biomedical Engineering
Ruston, LA 71272
Eric J. Guilbeau
Instructional scientific equipment in engineering

LA/BZ 337 ISEP
SER 76-12111
Louisiana Tech University
Department of Zoology
Ruston, LA 71272
Paul R. Ramsey (318) 257-3644
Integrated two-course sequence in genetics
Beckman uv spectrophotometer 24
Revco ULT-775B freezer
Percival E-54U growth chamber
Lear Siegler ADM-3A computer terminal
Milner Fenwick filmloop program on human genetics
Audiovisual; Computer; Self-paced; Biology; Visual aids

LA/EN 338 ISEP
SER 77-10267
Louisiana Tech University
Department of Civil Engineering
Ruston, LA 71272
Joe R. Wilson (318) 257-4176
Land surveying measurements and computations laboratory
Keuffel and Esser Autoranger EDM instrument 760332
Intermediate technology; Civil engineering; Geology; Forestry; Remote sensing; Engineering

LA/PS 339 ISEP
SER 77-11614
Loyola University in New Orleans
Department of Psychology
New Orleans, LA 70118
K. W. Jacobs Written inquiries only
Laboratory activities in physiological psychology, learning, and other courses
Narco Bio Systems desk model physiograph BMP-4B
Kodak random access slide projector Ektagraphic RA-960
Cyborg biofeedback electroencephalograph BL541
Autogenic Systems dermograph Autogen 3400
Columbus Instruments Automex electronic activity meters
Cyborg electromyograph and processing system P633 and J33
Cyborg digital thermometer and thermal biofeedback J42
Cyborg chart recorder Q910
Bell and Howell slide cassette recorder Ringmaster 797
BRS/LVE modular human test system
Scientific Prototype two-channel tachistoscope N-900
Ralph Gerbrands electromechanical control apparatus
Audiovisual; Competency-based; Self-paced; Student research; Biofeedback; Psychophysiology; Sensation and perception; Psychopharmacology; Behavior therapy; Pharmacology

LA/BZ 340 ISEP
SER 76-12724
Northeast Louisiana University
Department of Biology
Monroe, LA 71201
Harold C. Bounds
Instructional scientific equipment in biology

LA/BZ 341 LOCI/RULE
SER 76-14578
Northeast Louisiana University
Department of Biology
Monroe, LA 71201
William W. Norris Jr. (318) 342-4145
Embryology and histology for premedical and predental students
IVC 90 camera
Tape recorder CR6000U
Power wave form monitor Mark 21HR
Microscope
TV monitors
Audiovisual; Self-paced; Biology; Closed circuit television; Cassette tape

LA/IN 342 ISEP
SER 76-13031
Northwestern State University of Louisiana
Department of Chemistry and Physics
Natchitoches, LA 71457
Edward W. Graham
Instructional scientific equipment in interdisciplinary science

LA/PH 343 ISEP
SER 76-14070
Tulane University of Louisiana
Department of Physics
New Orleans, LA 70118
Frank E. Durham (504) 865-6286
Computer terminals for general physics laboratory
Lear Siegler ADM-3 terminals
Modems for 7/16 computer
Perkin Elmer data systems

LA/CH 344 ISEP
SER 76-12500
Tulane University of Louisiana
Department of Chemistry
New Orleans, LA 70118
J. T. Mague (504) 865-4713
Cold room for biochemistry instructional laboratory

Hotpack Corp. walk-in cold rooms
ISCO circular fraction collector
Chemistry

LA/PH 345 ISEP
SER 76-13695
University of Southwestern Louisiana
Department of Physics
Lafayette, LA 70501
Ronald L. Sproa
Instructional scientific equipment in physics

LA/CH 346 LOCI/RULE
SER 76-14237
Xavier University of Louisiana
Department of Chemistry
New Orleans, LA 70125
J. W. Carmichael Jr. (504) 486-7411 Ext. 358
Piaget based general chemistry laboratory for science majors
Minority students

MAINE

ME/SZ 347 ISEP
SER 77-11443
Colby College
Department of History and Government
Waterville, ME 04901
Louis Maisel
Instructional scientific equipment in social sciences

ME/BZ 348 ISEP
SER 77-11794
Nasson College
Department of Biology
Springvale, ME 04083
Gordon Leversee (207) 324-5340
Physiological ecology for environmental and allied health students
Gilson GRP-14 differential respirometer
Tektronix 5113 dual beam storage oscilloscope
Grass SD9 square wave stimulator
Narco Biosystems Mark III 3-channel physiograph
Buchler 4-2500 digital chloridometer
Non-science majors; Human physiology; Biology

ME/IN 349 ISEP
SER 77-11793
Unity College
Center of Environmental Science
Unity, ME 04988
Charles G. Cinnamon
Instructional scientific equipment in interdisciplinary science

ME/MA 350 ISEP
SER 76-12827
University of Maine at Orono
Department of Mathematics
Orono, ME 04473
R. Peter Dube
Instructional scientific equipment in mathematics

ME/EN 351 ISEP
SER 76-12818
University of Maine at Orono
Department of Electrical Engineering
Orono, ME 04473
Waldo M. Libbey (207) 581-7516
Undergraduate communication, electroacoustic, and environmental noise control laboratory
Bruel and Kjaer artificial voice 4219
Bruel and Kjaer random noise generator 1405
Grozier Technical Systems miniature impulse computer GT5-30
Bruel and Kjaer environmental noise classifier 166B
Bruel and Kjaer two-channel microphone selector 4408
Technician training; Gaussian noise; Impact spectrum; Acoustical modeling; Noise dose exposure; Wall transmission loss; Noise pollution; Engineering

ME/PH 352 LOCI/RULE
SER 77-02291
University of Maine at Orono
Department of Physics
Orono, ME 04473
James Rooney (207) 581-7745
Interdisciplinary undergraduate modular electrical and physical measurements laboratory
Computer; Self-paced; Technician training; Physics

ME/EN 353 LOCI/RULE
SER 76-14600
University of Maine at Orono
Department of Electrical Engineering
Orono, ME 04473
Walter M. Turner (207) 581-7516
Development of a stepping motor laboratory
Electric motors
Engineering; Electrical engineering

ME/EN 354 LOCI/RULE
SER 78-00336
University of Maine at Orono
Department of Electrical Engineering
Orono, ME 04473
John P. Vetelino/Steven O. Mittleman (207) 581-7516
Electrical engineering materials for sophomores
Intermediate technology

MARYLAND

MD/EN 355 ISEP
SER 76-12648
Capitol Institute of Technology
Department of Electronics
Kensington, MD 20795
Andres T. Siy
Instructional scientific equipment in engineering

MD/CH 356 ISEP
SER 77-11196
Community College of Baltimore
Department of Science and Chemistry
Baltimore, MD 21215
Donald P. Hoster (301) 396-7991
Instructional scientific equipment in chemistry for minority students
Beckman Instruments infrared spectrophotometer Acculab 1
Continuing education; Minority students; Women; Handicapped; Non-science majors

MD/MA 357 ISEP
SER 76-13030
Goucher College
Department of Mathematics
Towson, MD 21204
Geraldine A. Coon (301) 825-3300 Ext. 249
Improved instruction mathematics, economics, statistics, computer science, through computers
IBM line printer 1403-6
IBM plotter 1627-1
Digital Equipment Corp. DECWriter II LA 36-3A terminals
Telray terminals 3931 with APL character set
Tektronix graphics terminal 4010-1

MD/MA 358 LOCI/RULE
SER 77-03406
Goucher College
Department of Mathematics
Towson, MD 21204
Geraldine A. Coon (301) 825-3300 Ext. 249
Development of modules on current mathematical applications
Computer; Environment; Water pollution; Harvesting fish; Satellite orbits

MD/BZ 359 ISEP
SER 77-11596
Goucher College
Department of Biology
Towson, MD 21204
W. S. Johnson (301) 825-3300 Ext. 400
Field experience in marine biology for undergraduate women
Mako 19ft. outboard boat with 115 h.p. motor
Marinovich 16ft. balloon trawl
Leitz macro projector
Refrigerated 75 gal. aquariums
Environment

MD/IN 360 ISEP
SER 77-10375
Loyola College
Department of Biology
Baltimore, MD 21210
Howard Solomon (301) 323-1010 Ext. 468
Radioisotope usage for interdisciplinary sciences
Beckman LS3150 liquid scintillation counter
Nucleus Inc. model 500 L scaler
Rainin P20 Digital Pipetman pipet
Rainin P200 Digital Pipetman pipet
Nucleus Inc. well counter
Radiation biology; Radiation chemistry; Radiation physics; Modecular biology; Biochemistry; Chemistry; Physics; Interdisciplinary

MD/IN 361 ISEP
SER 77-10983
Loyola College
Department of Physics
Baltimore, MD 21210
B. J. Weigman (301) 323-1010
Computer control of undergraduate science laboratory experiments
Varian EM3630 lock/decoupler
Digital Equipment Corp. RK05 disk drive and controller
Digital Equipment Corp. data acquisition system
Computer; Undergraduate laboratory; Multidisciplinary; Data acquisition; Interdisciplinary

MD/PH 362 LOCI/RULE
SER 77-02424

University of Maryland College Park Campus
Department of Physics and Astronomy
College Park, MD 20742
David S. Falk
Data acquisition in undergraduate physics laboratories
Techtronix storage scope 5103N-DIS
Houstin Instruments X-Y recorder 2111-3.3
Cromemco Z2D disc computer system
Computer; Microprocessor; Automation

MD/IN 363 ISEP
SER 77-11909
University of Maryland College Park Campus
Department of Physics and Astronomy
College Park, MD 20742
Ralph D. Myers
Instructional scientific equipment in interdisciplinary sciences

MD/CH 364 LOCI/RULE
SER 78-02538
University of Maryland College Park Campus
Department of Chemistry
College Park, MD 20742
T. C. O'Haver (301) 454-2619
Applications of small computers in experiment control
Commodore PET 2001 computer
Advanced technology; Chemistry

MD/BZ 365 ISEP
SER 76-13574
University of Maryland Baltimore County Campus
Department of Biological Sciences
Catonsville, MD 21228
Frank E. Hanson (301) 455-2265
Neurophysiological and behavioral experiments in undergraduate organismic biology laboratory
Tektronix dual beam storage oscilloscope
Grass Co. stimulator
W. P. Instruments voltage follower amplifier
Brinkman micromanipulator
Esterline Angus Co. 20-channel event recorder
Intermediate technology; Competency-based; Circadian ryhthm studies; Membrane physiology; Biophysics; Sensory biology; Electronic instrumentation

MD/IN 366 ISEP
SER 76-12798
Villa Julie College
Department of Medical Laboratory Technology
Stevenson, MD 21153
Mary C. Mack
Instructional scientific equipment in interdisciplinary science

MASSACHUSETTES

MA/EZ 367 ISEP
SER 76-11387
Amherst College
Department of Geology
Amherst, MA 01002
Richard M. Foose (413) 542-2233
Optical equipment for transfer of map data
Bausch and Lomb ZT-4 zoom transfer scope
Bausch and Lomb ZT-4 zoom transfer scope
Intermediate technology; Air photos; Satellite imagery; Base maps; Map scales; Earth sciences

MA/BZ 368 ISEP
SER 77-09814
Bay Path Junior College
Department of Science
Longmeadow, MA 01106
Ronald M. Schnitzler (413) 567-6021 or 567-0621
Electrophysiological Experiments for Science Majors and Medical Paraprofessionals
Narco Biosystems MK III 3-channel physiograph
ER 5A Burdick electrocardiograph
Audiovisual; Women; Pre-nursing; Pre-medical; Demonstrations; Biology

MA/MA 369 LOCI/RULE
SER 76-14603
Bentley College
Department of Mathematics
Waltham, MA 02154
Ralph N. Johanson (617) 891-2153
Computer assisted instruction in intermediate algebra for business students
DEC System 10 computer
DECWriter II printer terminals
University of Toronto CAN system courseware
Computer; Competency-based; Self-paced; Non-science majors; Mathematics; Precalculus; Calculus

MA/ZZ 370 ISEP
SER 76-13283
Boston University
Department of Physical Therapy

118

Boston, MA 02215
Leslie D. Gross (617) 353-2720
Learning concepts of therapeutic exercise through specialized laboratory experiences
Teca TE-4 four channel electromyograph with fiber optic recorder
Teca 16 full wave integrators
Teca AA6 EMG amplifiers
Teca AD6 balanced dc amplifiers
Lumex Cybex II isokinetic dynamometer
Self-paced; Physical therapy; Occupational therapy; Health professions; Paramedical laboratory

MA/ZZ 371 ISEP
SER 77-10372
Boston University
Department of Astronomy
Boston, MA 02215
Kenneth James (617) 353-2627
Instructional solar laboratory
Heliostat
Spectrometer
Non-science majors; Astronomy

MA/EN 372 ISEP
SER 77-10417
Boston University
Department of Biomedical Engineering
Boston, Ma 02215
Robert J. McLaughlin
Instructional scientific equipment in engineering

MA/CH 373 ISEP
SER 76-12671
Brandeis University
Department of Chemistry
Waltham, MA 02154
James B. Hendrickson (617) 647-2802
Structural analysis in organic chemistry
Perkin Elmer R-32 lock and spin-spin decoupler
Houston instruments Omniscribe recorder
Waters Associates high pressure liquid chromatography

MA/PH 374 LOCI/RULE
SER 78-00368
Clark University
Department of Physcis
Worcester, MA 01610
Roger P. Kohin (617) 793-7448
New Optics Laboratory Course for Non-Physicists
Optical instrumentation
Non-science majors; Geometric and physical concepts; Physics; Arts majors; Biology majors; Pre-medical studies; Mathematics majors; Psychology majors

MA/PS 375 ISEP
SER 77-11403
College of the Holy Cross
Department of Psycology
Worcester, MA 01610
Charles S. Weiss
Instructional scientific equipment in psychology

MA/SZ 376 ISEP
SER 77-11051
Hampshire College
Department of Language and Communication
Amherst, MA 01002
Allen R. Hanson
Instructional scientific equipment in social sciences

MA/PH 377 ISEP
SER 76-14127
Springfield Technical Community College
Department of Physics
Springfield, MA 01105
Jack Barocas (413) 781-6470
Instrumentation laboratory in two year college
Digital Equipment Corp. LSI 11/03 microcomputer
Digital Equipment Corp. VT55 graphics terminal
Computer; Technician training; Physics

MA/BZ 378 ISEP
SER 76-13861
Massachusetts Institute of Technology
Department of Nutrition and Food Science
Cambridge, MA 02139
Charles L. Cooney
Instructional scientific equipment in biology

MA/BZ 379 LOCI/RULE
SER 78-00208
Massachusetts Institute of Technology
Department of Nutrition and Food Science
Cambridge, MA 02139
R. F. Gomer (617) 253-5108
Specialized microbiology subcourse for undergraduates

American Optical series 120 microscope
Energy; Environment; Microbial genetics; Toxinology; Toxicology; Anaerobic microbiology; Bacteriology; Biology

MA/CH 380 ISEP
SER 76-14521
Massachusetts Institute of Technology
Department of Chemistry
Cambridge, MA 02139
Ralph H. Staley (617) 253-4537
One semester integrated chemistry laboratory for biologically oriented students
Perkin Elmer gas chromatograph 3920B
Gow-Mac liquid chromatograph 80-500
Beckman spectrophotometer 24
Orion Research ion meter 407A
Pre-medical

MA/BZ 381 ISEP
SER 76-13094
Mount Holyoke College
Department of Biological Sciences
South Hadley, MA 01075
Francis J. Detoma (413) 538-2288
Slide-tape assisted self-paced biochemistry laboratory for undergraduate women
Beckman liquid scintillation counter LS-100C
Gilford uv-visible spectrophotometer 250
Gilford automatic cuvette positioner 2451
Gilford strip chart recorder 6050
Singer Caramate II rear screen slide projector
Audiovisual; Self-paced; Gas liquid chromatography; Thin layer chromatography; Protein synthesis; DNA melting and reassociation; Kinetics; Biology

MA/EZ 382 ISEP
SER 76-14138
Mount Holyoke College
Department of Geology
South Hadley, MA 01075
Steven W. Mitchell (413) 538-2134
Geology thin-sectioning laboratory equipment for four-year college
Hillquist thin section machine 1005
Hillquist 14in. slab saw RF-14
Hillquist thin section grinder
Women; Technician training; Earth sciences

MA/PS 383 ISEP
SER 77-10821
Northeastern University
Department of Psychology
Boston, MA 02115
Alexander A. Skavenski (617) 437-3043
Modern measurement techniques for undergraduate sensory psychology laboratory
Grayson Stadler 1200 series solid state logic auditory stimulator
Three-channel Maxwellian View optical stimulator for color vision
Microprocessor based on Intel 8080 chip
Real time analog I/O interface
Tape recorder Akai 4000 DSMKII
Analog signal recorder Heathkit IR18M
Computer; Intermediate technology; Technician training; Psychophysics; Adaptation; Tests of sensory function; Stimulus measurement

MA/CH 384 LOCI/RULE
SER 76-14547
Simmons College
Department of Chemistry
Boston, MA 02115
Jerry A. Bell (617) 738-2186 or 738-2181
Interactive auto-tutorial audiovisual modules for complex instrument operation
3M sound-on-slide projectors
Nikon F2A Photomic camera and lenses
Self-paced; Chemistry; Pre-laboratory instruction

MA/BZ 385 LOCI/RULE
SER 76-14563
Simmons College
Department of Biology
Boston, MA 02115
Miriam S. Schweber
Local course improvement in biology

MA/BZ 386 ISEP
SER 77-11935
Smith College
Department of Biological Sciences
Northampton, MA 01063
Jon R. Geiger (413) 584-2700 Ext. 2352
General, molecular, and population genetics laboratory improvement
Beckman TJ-6R refrigerated centrifuge with rotors
Thermolyne Dri-Bath small specimen incubators
Blue M gravity convection incubators
New Brunswick Scientific electronic colony counters
Puffer Hubbard LR/FC-50 chromatography refrigerators
Heath 0-400 VDC general purpose power supplies
Women; Bacterial genetics; Population biology; Biology

MA/EN 387 LOCI/RULE
SER 78-00288
Southeastern Massachusetts University
Department of Electrical Engineering
North Dartmouth, MA 02747
John W. Gray
An introduction to computer engineering based on microprocessors

MA/PS 388 ISEP
SER 77-11731
Tufts University
Department of Child Study
Medford, MA 02155
Mathilda Holzman (617) 628-5000 Ext. 291
Video library for undergraduate developmental psychology
Video cassette recorder editing unit, Panasonic NV-9500
Video cassette recorder player, Panasonic NV-9200
Editing controller, Panasonic NV-950
Black and white monitors with audio Panasonic
Portable color camera, GC-4800
Portable color recorder player with charger, JVC CR-4400

MA/CH 389 LOCI/RULE
SER 77-02405
Tufts University
Department of Chemistry
Medford, MA 02155
Robert D. Stolow (617) 628-5000 Ext. 418
Computer assisted teaching of organic synthesis
Tektronix graphic computer terminal 4012
Digital Equipment Corp. DECWriter II LA36
Vadic VA3400 1200 bps modem
Anderson Jacobson A-242 acoustic coupler
Organic chemistry; Retrosynthetic analysis; LHASA; Interactive computer program; Chemistry

MA/PH 390 LOCI/RULE
SER 76-14872
University of Massachusetts Amherst Campus
Department of Physics and Astronomy
Amherst, MA 01003
John J. Clement (413) 545-0988
Cataloguing student conceptual models in introductory university physics
Cognitive science; Protocol analysis; Clinical interviewing; Preconceptions; Misconceptions; Problem solving; Physical intuition; Physics laboratories; Teaching strategies

MA/ZZ 391 ISEP
SER 76-12904
University of Massachusetts Amherst Campus
Department of Forestry and Wildlife Mangement
Amherst, MA 01003
R. Bruce Hoadley (413) 545-2110
Video microscope system for teaching wood anatomy
Wild teaching microscope M12
Panasonic videotape recorder NV-2121
Magnavox TV color camera chromavue ICV-400
Magnavox TV color monitors DG 8812
Wild teaching tube with pointer 256-547
Audiovisual; Wood technology; Biology; Plant anatomy

MA/EN 392 ISEP
SER 76-12903
University of Massachusetts Amherst Campus
Department of Mechanical Engineering
Amherst, MA 01003
Karl Jakus (413) 545-2424
Computer assisted laboratory instruction
Digital Equipment Corp. PDP 11/34 computer
Digital Equipment Corp. PDP 11/03 microcomputer
Digital Equipment Corp. LA-36 DECWriter II
ASR-33 teletype terminal
Omnitec 701R acoustic coupler
Mechanical engineering; Manufacturing; Computer testing; Engineering

MA/CS 393 ISEP
SER 76-12941
University of Massachusetts Amherst Campus
Department of Electrical and Computer Engineering
Amherst, MA 01003
W. H. Kohler (413) 545-0765
Minicomputer and microcomputer laboratory for hardware and software instruction
DEC dual drive floppy disk system
DEC RT-11/Remote-11 software
DEC AR-11 real time analog data acquisition package
E and L Breadbox IV breadboards
Fabri-Tek 16-Kword core memory system
Assembly language programming; Digital signal processing; Real time programming; Computer network; Computer science

MA/EN 394 ISEP
SER 77-10460

University of Massachusetts Amherst Campus
Department of Chemical Engineering
Amherst, MA 01003
Robert L. Laurence (413) 545-5690
Laboratory equipment for polymer processing
Killion 3cm extruder
Killion wire coating line
Killion film blowing line
Buy-15 injection molding machine
Engineering; Chemistry

MA/EZ 395 LOCI/RULE
SER 78-00023
Wellesley College
Department of Geology
Wellesley, MA 02181
Harold Andrews (617) 235-0320 Ext. 560
College geology program for computer literacy
Earth sciences

MA/EZ 396 ISEP
SER 76-12506
Wellesley College
Department of Geology
Wellesley, MA 02181
James R. Besancon (617) 235-0320 Ext. 764
X-ray diffraction in geology
Philips Vertical Diffraction Goniometer Assembly
Lico Data Measuring System DMS-41
Pitchford Pica Blender Mill
Mineralogy; Diffractometry; Earth sciences

MA/IN 397 LOCI/RULE
SER 76-14882
Worcester Junior College
Department of Science
Worcester, MA 01608
Leonardo Pesaner (617) 755-4314
Unified science course for minimally motivated students
Radio Shack home computer TRS-80
Science Fair electronic projects 28-248
ARP synthesizer AXXE
Gow Mac gas chromatograph series 150
Audiovisual; Computer; Energy; Environment; Women; Non-science majors; Biophysics; Waves and music; Interdisciplinary

MA/EN 398 ISEP
SER 77-09571
Worchester Polytechnic Institute
Department of Electrical Engineering
Worchester, MA 01609
A. E. Emanuel Written inquiries only
Power electronics lab for electrical engineers
General Electric 35A 800V silicon controlled rectifiers
Digital wattmeter EIL M6216
Wave analyser
True RMS meter
Energy; Energy conversion; Power conditioning; Solid state devices; Engineering

MA/BZ 399 ISEP
SER 76-12447
Worcester Polytechnic Institute
Department of Life Sciences
Worcester, MA 01609
Betty B. Hoskins (617) 753-1411 Ext. 543
Innovative experimental design course and projects in renovated laboratories
Biogard laminar flow hood
Thelco CO_2 incubator
American Optical Fluorostar fluorescence microscope
Coulter counter
Beckman two channel liquid scintillation counter
Competency-based; Cell studies; Tissue culture; Biology

MICHIGAN

MI/PS 400 ISEP
SER 76-12061
Alma College
Department of Psychology
Alma, MI 48801
Joel Myerson
Instructional scientific equipment in psychology

MI/EN 401 ISEP
SER 76-13960
Andrews University
Department of Engineering Technology
Berrien Springs, MI 49103
David W. Swaine (616) 471-3420
Fluid power systems laboratory equipment for technology students
Sperry Vickers portable hydraulics trainer
Competency-based; Non-science majors; Technician training; Engineering

MI/PS 402 ISEP
SER 77-10745

Calvin College
Department of Psychology
Grand Rapids, MI 49506
David M. Snuttjer (616) 949-4000 Ext. 226
Computer assisted experimental psychology courses for advanced students
Digital Equipment Corp. PDP-8/A 32K minicomputer
Digital Equipment Corp. LA36 DecWriter II terminal
Digital Equipment Corp. RX8-EA dual drive floppy disc
Coulbourn Instruments modular psychophysical and psychophysiological equipment
State Systems integrated circuit PDP-8 interface

MI/PH 403 ISEP
SER 79-13884
Central Michigan University
Department of Physics
Mount Pleasant, MI 48858
Calman Levich
Instructional scientific equipment in physics

MI/BZ 404 ISEP
SER 76-13592
Central Michigan University
Department of Biology
Mount Pleasant, MI 48858
Daniel E. Wujek (517) 774-3628
Scanning electron microscopy and associated equipment for biologists
Advanced Metals Research model 1200 scanning electron microscope
Technics Hummer I sputter coater
Sorvall MT-2B ultramicrotome
Polaron E760 vacuum evaporator
Transmission electron microscopy; Vacuum evaporator; Biology

MI/IN 405 LOCI/RULE
SER 78-00366
Grand Valley State Colleges
College IV
Allendale, MI 49401
P. Douglas Kindschi (616) 895-6611 Ext. 261
Self-paced materials for a competency-based fundamental science curriculum
Audiovisual; Non-science majors; Social science; Natural science; Interdisciplinary

MI/MA 406 ISEP
SER 77-11426
Highland Park Community College
Department of Mathematics
Highland Park, MI 48203
Madhao Vaidya
Instructional scientific equipment in mathematics

MI/BZ 407 ISEP
SER 76-13756
Hope College
Department of biology
Holland, MI 49423
Meredith Blackwell
Instructional scientific equipment in biology

MI/IN 408 LOCI/RULE
SER 77-02965
Hope College
Department of Physics
Holland, MI 49423
Richard Brockmeier (616) 392-5111
Beginning scientific computer programming techniques for undergraduate science students
Teletype 43 terminal
Modeling; Interdisciplinary

MI/CS 409 LOCI/RULE
SER 78-00478
Hope College
Department of Computer Science
Holland, MI 49423
Herbert L. Dershem (616) 392-5111 Ext. 3002
Modular approach to introductory course in computer science
Computer; Non-science majors

MI/PS 410 LOCI/RULE
EPP 75-21247
Hope College
Department of Psychology
Holland, MI 49423
David G. Myers (616) 392-5111
Application of social psychology to behavior and belief
Audiovisual; Non-science majors; Religion

MI/PH 411 ISEP
SER 77-11934
Kalamazoo College
Department of Physics
Kalamazoo, MI 49007
Allen V. Buskirk
Instructional scientific equipment in physics

MI/CH 412 ISEP
SER 76-12514

Kalamazoo College
Department of Chemistry
Kalamazoo, MI 49007
Richard J. Cook (616) 383-8452
High performance liquid chromatography in undergraduate courses and research
Waters Associates high performance liquid chromatography pump 6000A
Waters Associates high performance liquid chromatography detector 440
Waters Associates high performance liquid chromatography solvent programmer 660
Waters Associates high performance liquid chromatography detector R401
Chemistry; Analysis

MI/SZ 413 ISEP
SER 76-13784
Michigan State University
Department of Geography
East Lansing, MI 48824
Dieter Brunnschweiler
Instructional scientific equipment in social sciences

MI/PS 414 LOCI/RULE
SER 78-00939
Michigan State University
Department of Audiology and Speech Sciences
East Lansing, MI 48824
Michael R. Chial (517) 353-8780
Student laboratory in psychoacoustics
Polymorphic microprocessor based computer system 8813
Tracoustics RE-140B sound-treated chamber
Starkey Laboratories hearing science laboratory
Heath SO-4550 dual trace oscilloscope
Heath SM-4100 frequency counter
Computer; Self-paced; Non-science majors; Psychology; Noise; Sound

MI/BZ 415 ISEP
SER 76-12750
Michigan State University
Lyman Briggs College
East Lansing, MI 48824
Howard H. Hagerman (517) 353-4763 or 353-6480
General biology and independent studies
Beckman model 24 spectrophotometer and recorder
Beckman model J21-C refrigerated centrifuge
Sherer model CEL44 constant temperature and humidity chamber
Gilson G14 respirometer
Audiovisual; Environment; Self-paced; Multidisciplinary; Investigative laboratories

MI/PH 416 ISEP
SER 76-12751
Michigan State University
Department of Physics
East Lansing, MI 48824
Jerry Nolen (517) 353-5957
Physics demonstrations for life science students
Metrix Inc. Echo Trace ultrasonic echo apparatus
American Optical model 2400 electrocardiogram apparatus
American Optical phase contrast microscope H20 TU-PP4
Tracor Northern multichannel analyzer TN-1705
Metrix Inc. Echo Flow Monitor ultrasonic doppler
Premed students; Biological applications; Applications of physics; Introductory physics

MI/CS 417 ISEP
SER 77-10891
Michigan State University
Department of Computer Science
East Lansing, MI 48824
B. Weinberg (517) 355-2387
Improvements in a junior level computer science course sequence
Interdata 7/16 minicomputer
DECWriter LA36 terminal
Computer

MI/MA 418 ISEP
SER 76-13745
Michigan State University
Department of Mathematics
East Lansing, MI 48824
P. K. Wong (517) 353-3831
Computer assisted course in biomathematics
Tektronix 4051 graphics computing system
Tektronix 4631 hardcopier
Tektronix 4662 digital plotter
Tektronix 4025 graphics terminal
Advent 1000A television projection system
Audiovisual; Environment; Compartmental analysis; Computer graphics; Ecological models; Modeling and simulation; Nonlinear oscillations; Physiological models; Mathematics

MI/BZ 419 ISEP
SER 76-13930
Michigan Technological University
Department of Biological Sciences
Houghton, MI 49931

121

Thomas P. Snyder (906) 487-2120
Advanced techniques in genetics laboratory for biology majors
Bausch and Lomb spectrophotometer 710
Percival incubator I-35VL
BioRad Co. fraction collector 1320
Heath Co. power supply 2717
Nikon stereomicroscope SMZ2
Wild stereomicroscope M7A
Bristol compound microscope
Puffer Hubbard Co. chromatography refrigerator
Electrophoresis; Chromosome analysis; Protein purification

MI/BZ 420 ISEP
SER 77-10315
Nazareth College
Department of Biology
Nazareth, MI 49074
Margaret Joseph Hornyak (616) 349-7783
Audio-tutorial approach in microbiology to encourage student self-direction
Blue M Electric Co. gravity convection incubator 200 A
Wolfe microscopes 1WKM3L
Audiovisual; Women; Biology; Bacteriology; Laboratory

MI/PH 421 LOCI/RULE
SER 77-03077
Oakland University
Department of Physics
Rochester, MI 48063
Abraham R. Liboff
Medical physics program

MI/CH 422 LOCI/RULE
SER 76-14867
Oakland University
Department of Chemistry
Rochester, MI 48063
Donald C. Young (313) 377-2334
Laboratory revision with industrial emphasis
Industrial chemistry; Polymer laboratory; Integrated laboratory; Instrumentation; Communication skills; Core module approach; Advanced projects; Chemistry

MI/IN 423 ISEP
SER 77-11198
Saginaw Valley State College
Department of Chemistry
University Center, MI 48710
Albert C. Plaush (517) 790-4361
Practical electronic technology laboratory for undergraduate college students
Hewlett Packard dual channel oscilloscope 1220
Hewlett Packard triple output power supply 6236B
Hewlett Packard function generator 3311A
Hewlett Packard digital voltmeter 3476A
Simpson VOM 260
Heath Co. laboratory breadboard ETW-3300
Intermediate technology; Minority students; Pre-college teachers; Women; Handicapped; Technician training; Interdisciplinary

MI/BZ 424 ISEP
SER 76-13197
Siena Heights College
Department of Natural Science
Adrian, MI 49221
Sharon R. Weber (517) 263-0731 Ext. 270
Equipment and audiovisual aids update for microbiology and biochemistry
Curtin Matheson Sterilmatic electric autoclave 322-057
Sargent Welch paper electrophoresis apparatus 5023
Wards apace filling models 82W8115
Wards filmstrip and cassette series on biochemistry
Biology; Chemistry; Bacteriology

MI/EN 425 LOCI/RULE
SER 78-00207
University of Detroit
Department of Chemical Engineering
Detroit, MI 48221
Raul E. Chao
CODECS, a cooperative design experience for college seniors

MI/EN 426 LOCI/RULE
SER 76-14805
University of Michigan
Department of Electrical and Computer Engineering
Ann Arbor, MI 48109
D. A. Calahan Written inquiries only
Microcomputers for CAI in introductory undergraduate electrical engineering
TI 745 teleprinter
Computer; Microcomputers in instruction; CAI in engineering; Computer assisted instruction

MI/EN 427 ISEP
SER 77-11053
University of Michigan-Dearborn
Department of Electrical Engineering
Dearborn, MI 48124
William D. Becher

Instructional scientific equipment in electrical engineering

MI/ZZ 428 ISEP
SER 77-11052
University of Michigan-Dearborn
Department of Natural Science
Dearborn, MI 48124
Richard D. Bertrand
Instructional scientific equipment in natural science

MI/PH 429 ISEP
SER 77-09572
Wayne State University
Department of Physics and Astronomy
Detroit, MI 48202
D. R. Gustafson (313) 577-2757
Newton's Second Law experiment, F=ma during rapid impacts
Lebow 3132-1K 1000lb. load cells
Consolidated Electrodynamics Corp. 4-202-0001 100G accelerometers
Tektronix 5111 storage oscilloscope
Tektronix 5B10N time base
Tektronix 5A20N differential amplifiers
Physics

MI/CH 430 ISEP
SER 77-11176
Wayne State University
Department of Chemistry
Detroit, MI 48202
Gene P. Reck (313) 577-2602
Television and computer graphics assisted freshman chemistry
Sony color camera DXC-1200
Advent Video-Beam projector 1000A
Panasonic cassette editing recorder NV-9500
Panasonic cassette recorder NV-9200
Panasonic editing controller NV-A950
Sony color video monitor KV-1910-V
Self-paced; Lecture demonstration; Laboratory; Single concept tapes

MI/BZ 431 ISEP
SER 76-14113
Wayne State University
Department of Biology
Detroit, MI 48202
Curtis J. Swanson
Experimental laboratory in physiology and biophysics for advanced undergraduates
Tektronics storage oscilloscope 5110
Vetter FM tape system model A
Sorvall ultracentrifuge OTD-65
Narco physiograph 6B
GCA McPherson spectrophotometer system 700 series
Intermediate technology; Continuing education; Pre-college teachers; Subcellular analysis; Physical chemistry of proteins; Enzyme interactions; Electrophoretic methods; Biology; Chemistry

MI/EZ 432 ISEP
SER 76-12674
Western Michigan University
Department of Geology
Kalamazoo, MI 49008
Caspar Cronk (616) 383-0776
Seismic equipment for introductory exploration geophysics
Nimbus Instruments ES-6D engineering seismograph
Vertical and horizontal geophones Walker Hall Sears
C and M Seismograph Equipment Co. seismic cable
Motorola M 6800 microcomputer D2 kit
Computer; Earth sciences; Geology

MI/MA 433 ISEP
SER 76-12980
Western Michigan University
Department of Mathematics
Kalamazoo, MI 49008
Anthony A. Gioia (616) 383-6198
Competency-based self-paced algebra for students with weak mathematical backgrounds
3-M test scorer with computer interface 5500
Texas Instruments Silent 700 terminal
Anderson Jacobson graphics terminal AJ 860
Teleray CRT terminal 3541
Competency-based; Self-paced; Keller method; Personalized system of instruction; Small-group discovery method; Computer-generated exams; Mathematics

MINNESOTA

MN/IN 434 ISEP
SER 77-10341
Augsburg College
Department of Phychology
Minneapolis, MN 55454
Norm Ferguson (612) 332-5181 Ext. 478
Introductory laboratory course in neurobiology
Narco trace 2-channel non-fade memory scope 709-1800
Narco channel amplifier type 7000
Narco dc-ac coupler type 7170
Narco stimulator SI-10
Labtron miniature right and left handed micromanipulators mm-3
Interdisciplinary; Biology; Neurology; Physiology

MN/EZ 435 ISEP
SER 76-13656
Carleton College
Department of Geology
Northfield, MN 55057
Eiler L. Hendrickson
Instructional scientific equipment in earth sciences

MN/PH 436 ISEP
SER 76-13000
Carleton College
Department of Physics
Northfield, MN 55057
Richard J. Noer (507) 645-4431 Ext. 415
Nuclear physics experiments for physics majors
Tracor Northern 1024-channel pulse height analyzer TN-1705
ORTEC timing single channel analyzer 551
Nuclear Data fast coincidence unit ND900
ORTEC scintillation preamplifier 113
ORTEC main amplifier 485

MN/CH 437 LOCI/RULE
SER 78-00077
Carleton College
Department of Chemistry
Northfield, MN 55057
R. W. Ramette (507) 645-4431 Ext. 224
New experiments in equilibrium and analysis
Electroanalysis; Polarography; Coulometry; Controlled potential; Chemistry

MN/BZ 438 ISEP
SER 77-10264
Carleton College
Department of Biology
Northfield, MN 55057
Gary Wagenbach (507) 645-8549
Purchase of scintillation counter
Packard Tri-Carb spectrometer B2450
Competency-based; Biochemistry; Radio tracer; Physiology; Biology

MN/BZ 439 ISEP
SER 76-13608
College of Saint Benedict
Department of Biology
Saint Joseph, MN 56374
Mary Grell (612) 363-3491 or 363-7711
Constant-environment chambers for growing organisms and tissues for genetics
GCA Precision Scientific Incubators, low temperature Freas model 815
Controlled temperatures; Biology

MN/CH 440 LOCI/RULE
SER 78-00178
College of Saint Catherine
Department of Chemistry
Saint Paul, MN 55105
William B. Gleason (612) 690-6620
Updating the biochemistry component of a chemistry curriculum
Women; Biology

MN/CH 441 ISEP
SER 76-13427
College of Saint Catherine
Department of Chemistry
Saint Paul, MN 55105
Mary Thompson (612) 690-6619
Laboratory equipment for integrated junior and senior chemistry laboratory
McKee Pederson electroanalytic module
Ace Glass Inc. inert gas glassware system
Parr solution calorimeter
McKee Pederson anodic stripping electrocell linear log recorder
Fisher Circustat baths
Intermediate technology; Women; Solution calorimetry; Electrochemical measurements; Analytical, physical, and inorganic chemistry; Inert gas and airless handling; Temperature control; Vacuum and temperature measurement

MN/CH 442 LOCI/RULE
SER 76-14483
College of Saint Catherine
Department of Chemistry
Saint Paul, MN 55105
Mary Thompson (612) 690-6619
Audiovisual materials and data assessment for college chemistry laboratory
Singer Caramate
Heath computer 11
Computer; Women; Science majors; Slide and tape format; Instruments use

MN/SZ 443 LOCI/RULE
SER 78-00718
College of Saint Thomas

Department of Economics
Saint Paul, MN 55105
William Walsh (612) 647-5665
Economics lessons programmed on the CDC PLATO computer
Audiovisual; Computer; Self-paced; Interactive; Social sciences

MN/SZ 444 LOCI/RULE
SER 78-00148
College of Saint Thomas
Department of Political Science
Saint Paul, MN 55105
Nancy H. Zingale (612) 484-4747
PLATO modules for teaching political science research methods
Computer; Social sciences

MN/CH 445 ISEP
SER 77-10300
Concordia College at Moorhead
Department of Chemistry and Biology
Moorhead, MN 56560
Robert Homann (218) 299-3101
Liquid scintillation counting experiments for chemistry and biology majors
Beckman Instruments liquid scintillation counter LS100C
Radiochemistry

MN/BZ 446 ISEP
SER 77-09836
Gustavus Adolphus College
Department of Biology
Saint Peter, MN 56082
W. Heidcamp (507) 931-4300 Ext. 288
Laboratory equipment for comparative physiology
Gilson respirometer IGRP14
Advanced Instrument osmometer N6007
Narco Trace physiograph MKIII, CDR-411 physiotape
Beckman dual pen intergrator recorder
Percival Mfg. plant growth chamber MB-60B
Biology majors

MN/SZ 447 LOCI/RULE
SER 78-00302
Hamline University
Department of Anthropology
Saint Paul, MN 55104
Cynthia A. Cone (612) 641-2247
Data analysis exercises in anthropology
Computer; Hypothesis testing; Quantitative and qualitative; Culture change analysis; Diffusion of technology; Mexico; Peasants; Mayan indians; Migration; Socio-economic development; Social Sciences

MN/MA 448 LOCI/RULE
SER 78-00466
Saint Olaf College
Paracollege
Northfield, MN 55057
Paul Fjelstad (507) 663-3178
An intensive tutorial in mathematics for freshman and sophomores

MN/CH 449 LOCI/RULE
SER 78-00427
Saint Olaf College
Department of Chemistry
Northfield, MN 55057
John C. Marshall (507) 663-3104
Computer assisted freshman thermodynamics and kinetics
Lear Siegler ADM-3A computer terminal
Chemistry

MN/CH 450 ISEP
SER 76-12937
Saint Olaf College
Department of Chemistry
Northfield, MN 55057
Donald A. Tarr (507) 663-3107
Gel permeation chromatography in physical chemistry laboratory
Waters Associates M-6000 solvent delivery system
Waters Associates D6K injector
Waters Associates R-400 differential refractometer
Waters Associates micro-Styragel columns
Analysis

MN/CS 451 ISEP
SER 76-13414
Moorhead State University
Department of Computer Science
Moorhead, MN 56560
Martin O. Holdien (218) 236-2603
Computer hardware software laboratory for majors in 4-year program
Tektronix oscilloscope T932
Motorola Semiconductor Products exorciser M6800
Motorola Semiconductor Products dynamic RAM module 16KX8
Motorola Semiconductor Products floppy disk drive M68FD3602
Motorola Semiconductor Products relocatable macro assembler M68ASMR021D
Computer science

MN/IN 452 LOCI/RULE
SER 77-02340

Moorhead State University
Department of Physics and Astronomy
Moorhead, MN 56560
Walter G. Wesley (218) 236-2141
Development of undergraduate history of science course and laboratory
Non-science majors; Historical and experimental instruction; Science and society; Interdisciplinary

MN/PH 453 ISEP
SER 77-10273
Winona State University
Department of Physics
Winona, MN 55987
Richard Shields (507) 457-2094
Electronics with biomedical applications
Electronic and medical instrumentation packages, Pasco Scientific, PI-8300
Physics; Life science majors

MN/EN 454 ISEP
SER 77-11223
University of Minnesota
Department of Mechanical Engineering
Minneapolis, MN 55455
W. A. Kleinhenz (612) 373-3302
Computer graphics for instructional use
Tektronix 4631 hard copy unit
Tektronix 4953 graphic tablet
Tektronix 4923 cartridge tape recorder
B and K sound level system
B and K octave analysis and filter
Mechanical engineering; Laboratory instruction; Graphical communication; Vibration; Acoustics; Engineering laboratory

MN/PH 455 ISEP
SER 77-11238
University of Minnesota
Department of Physics
Minneapolis, MN 55455
Marvin L. Marshak (612) 373-0241
Computer based data acquisition in upper division physics laboratories
Digital Equipment LSI-11 computer system and peripherals
Microprocessor

MN/CH 456 ISEP
SER 77-09716
University of Minnesota at Duluth
Department of Biochemistry
Duluth, MN 55812
Paul M. Anderson (218) 726-7280
Modern instrumentation for laboratory exercises in biochemistry
LKB fraction collector Redi Rac
Kelvinator 2-door chromatography refrigerator
A/O water shaker bath 02156
Beckman Chem-Mate pH meter
Beckman spectrophotometer 24
Assay; Separations; Chromatography; Chemistry

MN/MA 457 LOCI/RULE
SER 78-00067
University of Minnesota at Duluth
Department of Mathematical Sciences
Duluth, MN 55812
Joseph A. Gallian (218) 726-7576
Computer approach to abstract algebra
Mathematics; Group theory

MN/EZ 458 ISEP
SER 77-09714
University of Minnesota at Duluth
Department of Geology
Duluth, MN 55812
John C. Green (218) 726-7208
Spectrochemical analysis of earth materials for undergraduates
Vreeland spectroscope Spectrex 7
Earth sciences

MN/BZ 459 ISEP
SER 77-10493
University of Minnesota Technical College at Waseca
Department of Biological Science
Waseca, MN 56093
Clayton R. Oslund (507) 835-1000 Ext. 274
Environmental plant growth control for students of technical agriculture
Burrows seed germinator 1844
Sherer plant growth chamber CEL 36-10
Environments Non-science majors; Technician training; Biology; Horticulture; Agronomy

MISSISSIPPI

MS/BZ 460 LOCI/RULE
SER 77-03803
Alcorn State University
Department of Biological Science
Lorman, MS 39096

Verna R. Lawson
An updated course in plant physiology

MS/IN 461 ISEP
SER 77-10865
East Mississippi Junior College
Department of Science
Scooba, MS 39358
Myron D. Hutson (601) 476-3341
Instrumentation implementation for teaching contemporary science techniques
IMSAT microcomputer with Z80 modification and peripherals
Criterion Dynamax 8 telescope
Perkin Elmer 710B infrared spectrophotometer
Animal cages with stand, Carolina Biological Supply Jewel 330
Autoclave with stand, Sargent Welch S-76156
Physics engineering laboratory package including Pasco electronics
Self-paced; Minority students; Non-science majors; Interdisciplinary

MS/CH 462 LOCI/RULE
SER 78-00079
Jackson State University
Department of Chemistry
Jackson, MS 39217
Margaret Wodetzki (601) 968-2171
Piagetian based introductory chemistry laboratory for science majors
Minority students; Inquiry-based; Learning cycles; Intellectual development

MS/MA 463 LOCI/RULE
SER 78-00300
Mississippi College
Department of Mathematics
Clinton, MS 39058
Paul Ohme (601) 924-5131 Ext. 217
Operations research for business students with algebra background
Hightower Co. DECWriter II
Computer

MS/EN 464 ISEP
SER 77-10397
Mississippi State University
Department of Engineering Graphics
Mississippi State, MS 39762
W. B. Pearson (601) 325-5022
Hands-on introduction to computer graphics for engineering freshmen
Calcomp drum plotter 1039 with a 906 controller
Tektronix terminal 4006-1
Automated plotter drawing

MS/CH 465 ISEP
SER 76-12155
Mississippi University for Women
Department of Physical Sciences
Columbus, MS 39701
Dwight A. Payne (601) 328-4904
Upgrading quantitative analysis, instrumental analysis and research
Perkin Elmer nuclear magnetic resonance spectrometer R24B
Perkin Elmer uv-vis spectrophotometer 200
Women; Technician training; Chemistry

MS/IN 466 ISEP
SER 76-13207
Northwest Mississippi Junior College
Department of Sciences
Senatobia, MS 38668
Ronald L. McCalla
Instructional scientific equipment in interdisciplinary science

MS/PH 467 LOCI/RULE
SER 78-0352
University of Mississippi
Department of Physics
University, MS 38677
Lee Bolen (601) 232-7046
Instructional videocassettes on energy topics
Audiovisual; Self-paced; Non-science majors; Physics

MS/MA 468 LOCI/RULE
SER 77-03142
University of Mississippi
Department of Mathematics
University, MS 38677
David E. Cook (601) 232-7071
Computer applications of calculus
Mathematics; Computer science; Calculus supplement; Self-paced

MS/PS 469 ISEP
SER 76-13805
University of Mississippi
Department of Psychology
University, MS 38677
Stephen C. Fowler (601) 232-7383
A computer controlled experimental psychology laboratory for undergraduates
Digital Equipment PDP8 computer
Data Systems Design dual flexible disk drive
Teletype Corp. AJR 33
State Systems Inc. interface boards and realtime clock
Gerbrands cumulative recorders
Reaction time; Operant conditioning; Psychophysics; Classical conditioning; Cognitive psychology; Auditory phenomena

MS/EN 470 ISEP
SER 76-13806
University of Mississippi
Department of Chemical Engineering
University, MS 38677
H. T. Huddleston (601) 232-7023
Microcomputer system for undergraduate direct digital process control laboratory
Digital Equipment Corp. microcomputer LSI 11/03
Engineering

MS/BZ 471 ISEP
SER 77-10355
University of Southern Mississippi
Department of Biology
Hattiesburg, MS 39401
James B. Larsen (601) 266-7183
Human anatomy and physiology laboratory for nursing students
Collins gasometer (Tissot tank) 120 L P-1700-FLO
Lafayette reaction time apparatus, multiple choice, 63013
Wards human torso model 81W4005
Turtox human pregnancy models TMB-14
Bell and Howell rear screen 35 mm slide viewers 797
Respiration; Neurophysiology; Biology

MISSOURI

MO/BZ 472 ISEP
SER 77-10827
Central Missouri State University
Department of Biology
Warrensburg, MO 64093
Steven H. Mills Written inquiries only
Animal physiology for sophomore biology students
Narco digital storage oscilloscope
Quickscan motorized densitometer 1020
Vescor vapor pressure osmometer 5130
Narco channel amplifiers and input couplers 7070
David Kopf R-F lesion generator
Serum protein electrophoresis; Stereotaxic localization; Action potentials; Spontaneous neural activity; Muscle biophysics; Blood pressure direct monitoring

MO/BZ 473 LOCI/RULE
SER 78-00284
Fontbonne College
Department of Life Science
Saint Louis, MO 63105
Rosemary Connell (314) 862-3456
Subdividing general biology into competency, essential knowledge, multiple-choice courses
Bausch and Lomb Spec 20 BL 33-31-72
Aves 8mm film loop projector 820Z
Audiovisual; Competency-based; Self-paced; Pre-college teachers; Women; Non-science majors

MO/IN 474 ISEP
SER 77-11033
Lincoln University
Department of Agriculture and Natural Resources
Jefferson City, MO 65102
K. B. Paul
Instructional scientific equipment in interdisciplinary science

MO/CH 475 ISEP
SER 76-14099
Northeast Missouri State University
Department of Chemistry
Kirksville, MO 63501
Kenneth R. Foontain
Instructional scientific equipment in chemistry

MO/PH 476 LOCI/RULE
SER 77-03010
Park College
Department of Physics
Parkville, MO 64152
George H. Jirgal (816) 741-2000, Ext. 144
Self-paced course sequences in moden physics and quantum mechanics

MO/PH 477 ISEP
SER 76-12435
Rockhurst College
Department of Physics
Kansas City, MO 64110
Frank Pedrotti/John J. Hill (816) 363-4010, Ext. 270
Senior undergraduate physics laboratory improvement
Gaertner R410 rectangular flatbed optical bench
Metrologic ML-940 laser
Metrologic 60-635 holography laboratory
Holography

MO/PH 478 LOCI/RULE
SER 77-02977
Saint Louis Community College at Florissant Valley
Department of Physics
Ferguson, MO 63135
Paul F. Feldker (314) 595-4381
Video tape modules for self-paced introductory physics
Sony Corp. Betamax video tape recorder SL0260
Audiovisual

MO/PH 479 LOCI/RULE
SER 77-02343
Saint Louis University
Department of Physics
Saint Louis, MO 63103
James Barker (314) 658-2514
Undergraduate health physics degree program
Eberline Instrument Co. TLD reader TLR-5
Victoreen survey meter 470A
Victoreen ionization meter 440
Technical Associates gas proportional counter SFM-5V-3
Energy; Environment; Medical physics; Nuclear power; Radiation protection

MO/IN 480 ISEP
SER 77-11926
Southeast Missouri State University
Department of Chemistry
Cape Girardeau, MO 63701
Bjorn Olesen (314) 651-2166
Biochemistry laboratory equipment program
Beckman liquid scintillation counter 3255
IEC refrigerated centrifuge B-20A
Tissumizer homogenizer
Interdisciplinary

MO/BZ 481 ISEP
SER 76-12151
University of Missouri-Kansas City
Department of Biology
Kansas City, MO 64110
Robert G. Anderson (816) 276-1385
Nikon Micropan zoom microprojector for microscopically oriented courses
Nikon Micropan zoom microprojector
Audiovisual; Biology

MO/ZZ 482 ISEP
SER 76-14135
University of Missouri-Rolla
Department of Engineering Management
Rolla, MO 65401
Burns E. Hegler (314) 341-4718
Development of laboratories for production and safety engineering
Amplival phase contrast microscope
Lafayette time motion projector AAP-302I
Gen Rad sound level meter and analyzer 1982
Gen Rad portable recorder 1985
Thermo Systems air velocity meter 1650
Computer; Energy; Environment; Self-paced; Industrial hygiene; Work design; Human factors; Engineering management; Industrial engineering; Methods engineering

MO/EN 483 LOCI/RULE
SER 77-02521
University of Missouri-Rolla
Department of Electrical Engineering
Rolla, MO 65401
Jack F. Morris (314) 341-4521
Four-machine model electric power system for power engineering laboratory
Tektronix plug-in logic analyzer 7D01F
Tektronix mainframe oscilloscope 7603
Energy; Microprocessor applications; System modeling

MO/EN 484 LOCI/RULE
SER 76-14316
University of Missouri-Rolla
Department of Electrical Engineering
Rolla, MO 65401
Paul D. Stigall (314) 341-4514
Microprocessor system design for undergraduate electrical engineers
Future Data microsystem 10 model 8080
Future Data microemulator 8080
Future Data EPROM programmer personality module
Computer; Integrated course sequence; Laboratory experiments

MO/EN 485 ISEP
SER 77-11920
Washington University
Department of Chemical Engineering
Saint Louis, MO 63130
M. P. Dudukovic
Undergraduate chemical reaction engineering laboratory
Chemistry

MO/EN 486 ISEP
SER 76-12899
Washington University
Department of Electrical Engineering
Saint Louis, MO 63130
Raymond M. Kline (314) 889-6162
Undergraduate instructional equipment for electrical engineering and computer science
E and L Instruments digital breadboard system IS-3A
Heath Co. 6800 microprocessor ET-3400 trainer kit
Southwest Technical Products 6800/2 computer system
Tektronix 7001F logic analyzer with formatter
Computer; Digital laboratory equipment; Digital computer design; LSI laboratory experiments; Computer interfacing; Digital design laboratory

MO/SZ 487 ISEP
SER 76-13912
Washington University
Department of Economics
Saint Louis, MO 63130
Robert P. Parks
Instructional scientific equipment in social sciences

MO/EN 488 LOCI/RULE
SER 77-03419
Washington University
Department of Chemical Engineering
Saint Louis, MO 63130
Robert E. Sparks (314) 889-6003
Computer-aided undergraduate chemical engineering laboratory
Foxboro Co. 2E69F current to air transducer 3744311-12
Hamilton Avnet Co. MMS1116 16K semiconductor memory
American used computer BAR-11EC expander box with power supply
Distillation column control; Heat exchanger

MONTANA

MT/EN 489 ISEP
SER 76-12523
Montana College of Mineral Science and Technology
Department of Metallurgy
Butte, MT 59701
Vernon Griffitho (406) 792-8321 Ext. 344
Scanning electron microscope for multi-discipline undergraduate laboratory classes
ISI scanning electron microscope 7
Low cost; Interdisciplinary; Engineering

MT/EN 490 ISEP
SER 76-12948
Montana State University
Department of Mechanical Engineering
Bozeman, MT 59715
Ronald L. Musselman
Instructional scientific equipment in mechanical engineering

MT/EN 491 ISEP
SER 77-10288
Montana State University
Department of Civil Engineering and Engineering Mechanics
Bozeman, MT 59715
Ralph W. Zimmer
Instructional scientific equipment in engineering

MT/MA 492 LOCI/RULE
EPP 75-11067
University of Montana
Department of Mathematics
Missoula, MT 59801
William R. Derrick (406) 243-4833
Computer-assisted elementary mathematical models for now-math majors
Computer; Non-science majors; Non-mathematics major; Computer simulations; Mathematics

MT/MA 493 ISEP
SER 76-12720
University of Montana
Department of Mathematics
Missoula, MT 59801
Howard E. Reinhardt (406) 243-6142
Hand-held calculators for courses in statistical methods
Hewlett Packard programmable calculators HP25, HP67, HP97
Texas Instruments programmable calculators TI 58
Self-paced; Biology; Social sciences; Mathematics

MT/EZ 494 ISEP
SER 76-12650
University of Montana
Department of Forestry
Missoula, MT 59801
Robert W. Steele
Instructional scientific equipment in earth sciences

NEBRASKA

NE/BZ 495 ISEP
SER 76-12106
Hasting College
Department of Biology

Hastings, NE 68901
Charles Springer (402) 463-2402
Physiology laboratories and audiovisual demonstrations for pre-health professions
Narco Biosystems physiograph CPM
Narco Biosystems physiotape cassette data recorder 411
Narco Biosystems physiotape prerecorded experiments
Narco Biosystems pressure transducer P-1000A
Grass stimulator SD9
Experimental psychology; Physiological psychology; Biology; Psychology

NE/CH 496 ISEP
SER 76-10696
Hastings College
Department of Chemistry
Hastings, NE 68901
Charles D. Warner (402) 463-2402
Infra red spectrophotometer and modular electronics for teaching chemistry
Perkin Elmer infrared spectrophotometer 727-B
MPI modular electronics

NE/CH 497 LOCI/RULE
SER 78-00185
Hastings College
Department of Chemistry
Hastings, NE 68901
Charles D. Warner (402) 463-2402
LAP dissolve slide presentations for organic chemistry laboratory
Kodak LAP dissolve unit
Audiovisual; Laboratory instruction; Laboratory technique

NE/PH 498 LOCI/RULE
SER 76-14574
Kearney State College
Department of Physics
Kearney, NE 68847
Donn Carlson (308) 236-4136
Inquiry role approach for teaching physical science
Piagetian based; Teaching strategies; Critical thinking; Formal thinking; Process skills; Comparative study; Physics; Non-science majors

NE/BZ 499 ISEP
SER 77-10588
University of Nebraska-Lincoln
School of Life Sciences
Lincoln, NE 68588
Royce E. Ballinger (402) 472-2720
Experimental ecology laboratory for life sciences undergraduates
Phillipson oxygen microbomb calorimeter
Mettler P1210 balance
Honeywell Electronik recorder 196
Thelco oven 28
Wiley Mill
Computer; Energy; Environment; Niche overlap; Reproductive effort and strategies; Ecosystem structure and diversity; Ecosystem productivity; Biology

NE/IN 500 LOCI/RULE
SER 78-00324
University of Nebraska-Lincoln
Department of Physics
Lincoln, NE 68588
Robert G. Fuller (402) 472-2790
Piagetian-based physical sciences course for preservice teachers
Pre-college teachers; Interdisciplinary

NE/CH 501 ISEP
SER 76-12963
University of Nebraska-Lincoln
Department of Chemistry
Lincoln, NE 68588
C. J. Eckhardt (402) 472-2734
Modernization of experiments for physical chemistry
OLIS Inc. analog computer
Perkin Elmer spectrofluorimeter MFP43
Stopped flow apparatus made locally
Computer

NE/CS 502 LOCI/RULE
SER 77-02355
University of Nebraska-Lincoln
Department of Computer Science
Lincoln, NE 68588
Sharad Seth (402) 472-3488
Integrated mini-micro learning center
IMSAI serial input and output board
Interdata PASLA serial interface board
Computer; Technician training; Resource sharing; Software link between computers; Systems programming; Computer science

NE/MA 503 LOCI/RULE
SER 77-03098
University of Nebraska at Omaha
Department of Mathematics
Omaha, NE 68182
Barbara Buchalter (402) 554-2844
Feasibility study of self-paced algebra and trigonometry for college
3M Sound Pages master recorder and audio printer
Mathematics; Modified Keller plan; Competency-based

NEVADA

NV/CS 504 ISEP
SER 77-09719
University of Nevada-Las Vegas
Department of Mathematics
Las Vegas, NV 89154
Stephen W. Sherman (702) 739-3259
Microcomputers for instruction in computer science hardware and software
Cromemco Z-2 microcomputer system
Cromemco 16K RAM
Cromemco TU-ART digital interface
Computer science

NV/CS 505 LOCI/RULE
SER 78-00008
University of Nevada-Las Vegas
Department of Mathematics
Las Vegas, NV 89154
Stephen W. Sherman (702) 739-3259
Software implementation of a microcomputer laboratory for computer education
Computer; Computer science

NV/CH 506 LOCI/RULE
SER 77-04032
University of Nevada-Reno
Department of Chemistry
Reno, NV 89557
Richard D. Burkhart (702) 784-6676
Acquisition and manipulation of digital data in physical chemistry
Nicolet Co. signal averager 535
Computer; Instrumental analysis; Laboratory

NV/IN 507 ISEP
SER 76-13919
University of Nevada-Reno
Department of Geology and Geography
Reno, NV 89557
David B. Slemmons
Instructional scientific equipment in interdisciplinary science

NEW HAMPSHIRE

NH/PH 508 LOCI/RULE
SER 76-14474
Dartmouth College
Department of Physics
Hanover, NH 03755
John N. Kidder (603) 646-2961
Introductory physics experiments for premeds emphasizing properties of matter
Fisher tensiometer 20

NH/MA 509 LOCI/RULE
SER 77-02326
Dartmouth College
Department of Mathematics
Hanover, NH 03755
J. Laurie Snell (603) 646-2951
Modules in probability with computing
Queues; Random walks; Markov chains; Ising model; Mathematics

NH/BZ 510 LOCI/RULE
SER 77-03838
Mount Saint Mary College
Department of Natural Science
Hooksett, NH 03106
Genevieve Quinn (603) 436-0960
Human biology for human services personnel
Special education; Gerontology; Home economics; Social welfare; Psychology; Education

NH/CH 511 LOCI/RULE
SER 77-03005
University of New Hampshire
Department of Chemistry
Durham, NH 03824
Alexander R. Amell (603) 862-2475 or 862-1550
Chemistry experiments for non-science majors
Competency-based

NH/EZ 512 ISEP
SER 76-13638
University of New Hampshire
Department of Earth Sciences
Durham, NH 03824
F. S. Birch
Graphic computer for earth sciences instruction and learning
Tektronix digital computer 4051

Tektronix hard copy unit 4631
Computer; Data reduction; Laboratory instruction; Simulation experiments; Class demonstrations

NH/EN 513 ISEP
SER 76-13637
University of New Hampshire
Department of Mechanical Engineering
Durham, NH 03824
Robert Corell (603) 862-1053
Computer assisted mechanical systems analysis and synthesis laboratory
DEC PDP-11/34 minicomputer
Datametrics series 1000 mass flow instrument
Daytronic 9000 modular instrument system
Tektronix digital plotter
Measurement; Instrumentation; Graphics; Laboratory data acquisition; Data processing; Engineering

NH/CS 514 ISEP
SER 77-10996
University of New Hampshire
Department of Electrical and Computer Engineering
Durham, NH 03824
John L. Pokoski (603) 862-1357
Microcomputer laboratory for undergraduate computer scientists and engineers
MOS Technology Inc. microcomputer KIM-1
Data I/O PROM programmer model 9
Systron Bonner microprocessor analyzer
Computer; Interfacing; Computer science

NEW JERSEY

NJ/CH 515 ISEP
SER 77-10258
Bergen Community College
Department of Physical Science and Mathematics
Paramus, NJ 07670
Horace W. Chandler (201) 447-1500 Ext. 392
Environmental technician training for two-year college students
Precision Scientific automatic tape sampler and chart recorder
Chemistry

NJ/CH 516 LOCI/RULE
SER 78-00709
Bloomfield College
Department of Chemistry
Bloomfield, NJ 07003
Melvin Winokur (201) 748-9000 Ext. 252
An audiovisual improvement in chemical laboratory instruction
Kodak Ektagraphic Audioviewer
Self-paced; Minority students; Chemistry

NJ/EN 517 ISEP
SER 77-11512
County College of Morris
Department of Electronic Engineering Technology
Dover, NJ 07801
X. F. Gonzalez (201) 361-5000 Ext. 313
Microprocessor equipment for a two-year engineering technology program
E and L Instrument mini-micro designers
Solderless sockets
Logic probes
Digital data recorder
Paper tape punch
Computer; Technician training

NJ/PH 518 ISEP
SER 76-13438
Drew University
Department of Physics
Madison, NJ 07940
R. L. Fenstermacher (201) 377-3000 Ext. 371
Mini-research projects for advanced physics laboratory
Pacific photometric telescope photometer system 2412
McKee Pederson monochromator MP-1018B
Heath strip-chart recorder SR-205
Logimetrics rf signal generator 920B
Keithley lock-in amplifier 820
Self-paced

NJ/BZ 519 ISEP
SER 76-13439
Drew University
Department of Zoology
Madison, NJ 07940
Afework A. Mascio (201) 377-3000 Ext. 351
Microbiological laboratory equipment for four-year college
IEC PR-6000 refrigerated centrifuge
American Optical fluorescent microscope V-120 BU-FD4
Bioquest biological cabinet
National two-door CO_2 incubator
Revco ULT-1145 freezer
Environment; Intermediate technology; Clay Adams blood cell counter; Helena Labs immunoelectrophoresis apparatus; Instructional and research projects; Immunology and molecular biology; Pre-medical students; Biology; Bacteriology

NJ/CH 520 LOCI/RULE
SER 76-14317
Fairleigh Dickinson University Teaneck Campus
Department of Chemistry
Teaneck, NJ 07666
Arthur M. Lesk (201) 836-6300
Computer-generated audio-visual aids to presenting mathematical derivations in chemistry
Audiovisual

NJ/EN 521 ISEP
SER 76-13270
Fairleigh Dickinson University Teaneck Campus
Department of Electrical Engineering
Teaneck, NJ 07666
Howard I. Silver (201) 836-6300 Ext. 315 or 313
Microcomputer laboratory for electrical engineering department
E and L Instruments mini-micro designers MMD-1
Computer

NJ/BZ 522 ISEP
SER 77-10593
Kean College of New Jersey
Department of Biology
Union, NJ 07083
David Bardell (201) 527-2012
Aquisition of equipment for a course in immunology
American Optical fluorescence microscope Fluorestar V20
Gelman electrophoresis apparatus Sepratek
International Equipment Co. centrifuge K
Intermediate technology; Minority students; Pre-college teachers; Women; Microbiology; Biology; Premedical; Bacteriology

NJ/CH 523 ISEP
SER 77-10926
Monmouth College
Department of Chemistry
West Long Branch, NY 07764
Donald Bretzger
Instructional scientific equipment in chemistry

NJ/EN 524 LOCI/RULE
SER 76-14571
Princeton University
Department of Aerospace and Mechanical Science
Princeton, NJ 08540
Richard Miles (609) 452-5131
New transportation component for an interactive technology society course
Computer; Environment; Intermediate technology; Engineering

NJ/IN 525 ISEP
Princeton University
Computer Center
Princeton, NJ 08540
James F. Poage (609) 452-6002
Acquisition of computer terminals to support undergraduate instruction
Datamedia Elite 1520A computer terminals
DECWriter II computer terminals with APL option
Interdisciplinary

NJ/CH 526 ISEP
SER 76-13192
Rutgers, The State University of New Jersey
Department of Chemistry
New Brunswick, NJ 08903
G. R. Bird/A. Bond (201) 932-3029
Physical chemistry experiments allowing direct visualization of molecular events
Perkin Elmer recording vis-uv spectrometer 550
Cahn Electrobalance rigged for surface tension
Micro Now ESR spectrometer
Turner filter fluorimeter 110
Competency-based

NJ/BZ 527 ISEP
SER 77-11745
Rutgers, The State University of New Jersey-Camden Campus
Department of Biology
Camden, NJ 08102
Ira S. Richards
Instructional scientific equipment in biology

NJ/ZZ 528 ISEP
SER 76-13204
Rutgers, The State University of New Jersey-Newark Campus
Department of Zoology and Physiology
Newark, NJ 07102
Helen R. Strausser (201) 648-5548
Immunohematology, serology, and immunology for college students
CCI model 741 Biohazard laminar flow safety hood
Nikon 76561 inverted microscope with television viewer
Sorvall GLC-28 table top centrifuge
Mash II automated culture apparatus
Immune diffusion apparatus 115V/60Lz with attachments

Technician training (serology); Pre-medical; Pre-veternarian; Registered technologist; Professional immunologist; Industrial technologist; Pre-dental

NJ/IN 529 LOCI/RULE
SER 78-00199
Saint Peter's College
Department of Chemistry
Jersey City, NJ 07306
Patricia Redden (201) 333-4400 Ext. 433
Guided design in interdisciplinary introductory college science program
Competency-based; Self-paced; Minority students; Chemistry; Biology; Underprepared students; Evaluation of program; Interdisciplinary

NJ/BZ 530 ISEP
SER 76-13824
Seton Hall University
Department of Biology
South Orange, NJ 07079
Stanley Z. Kramer (201) 762-9000 Ext. 351
Physiology laboratory enrichment for non-science majors
Tektronix single channel oscilloscope 5110, 5B10N, 5A20N
Harvard high gain ac/dc amplifier 355
Harvard electronic stimulator 344
Harvard mechanical module system 1052
Clay Adam microhematocrit centrifuge 0571
Non-science majors; Muscle physiology; Cardiology; Hematology; Biology

NJ/EN 531 LOCI/RULE
SER 78-00468
Stevens Institute of Technology
Department of Interdisciplinary
Hoboken, NJ 07030
Richard B. Cole (201) 792-2700 Ext. 254 or 252
Instructional materials for engineering experimentation for sophomores and higher
JVC video playback unit CP 5000
RCA color video monitor and receiver JA970W
Self-paced; Non-science majors; Experimental concepts and techniques; Instrumentation

NJ/CS 532 ISEP
SER 76-12149
Stevens Institute of Technology
Department of Electrical Engineering
Hoboken, NJ 07030
Emil C. Neu (201) 792-2700 Ext. 263
Improvement of undergraduate course in computer and operating systems
DEC RK11J-DE disk cartridge drive and control unit
DEC RK06J-AA moving head DECpack drive
DEC RX11-BA dual drive floppy disk and control unit
DEC TMB11-MA control and first TSD3 tape transport
DEC KE11-E extended instruction set
DEC KT11-D memory management option
DEC KW11-L line frequency real time clock
DL11-WB EIA asynchronous line real time clock
H960-DH cabinet
MF11-UB 32K×16 memory
MF11-U 16K×16 memory
DD11-C mounting frame
Computer; Assembly language; Systems programming; UNIX; Computer science

NJ/CH 533 LOCI/RULE
SER 77-03790
Stevens Institute of Technology
Department of Chemistry and Chemical Engineering
Hoboken, NJ 07030
J. M. Van Der Veen (201) 792-2700 Ext. 347
A chemistry computer program library
Diablo Hytype I terminal

NJ/IN 534 ISEP
SER 76-11433
Trenton State College
Department of Physics
Trenton, NJ 08625
Gerald P. Nicholls (609) 771-2564
Interdepartmental radiation laboratory
Searle Delta 300 liquid scintillation counter
Ortec single channel gamma spectrometry system
ASR-33 teletype
MI^2 Design 76 acoustic coupler
Nucleus ML-2 lab monitor
Computer; Radiation detection; Radioisotope methods; Radiation biology; Radiochemistry; Radiation physics; Interdisciplinary

NJ/PH 535 ISEP
SER 77-10978
University of Delaware
Department of Physics
Newark, NJ 19711
David G. Onn
Instructional scientific equipment in physics

NJ/IN 536 LOCI/RULE
SER 76-14797
William Paterson College
Department of Biology and Psychology
Wayne, NJ 07470
Clifford Adelman/Judith Green (201) 595-2215
Honors program in biopsychology
Research oriented; Psychology; Biology; Interdisciplinary

NJ/IN 537 LOCI/RULE
SER 77-03395
William Paterson College
Office of Academic Development
Wayne, NJ 07470
Clifford Adelman (201) 595-2565
Honors program in life science ethics
Pre-health professions; Case studies; Public policy; Interdisciplinary

NJ/BZ 538 ISEP
SER 76-13098
William Paterson State College
Department of Biology
Wayne, NJ 07470
Martin E. Hahn
Instructional scientific equipment in biology

NEW MEXICO

NM/CS 539 ISEP
SER 77-10690
New Mexico Institute of Mining and Technology
Department of Computer Science
Socorro, NM 87801
Allan M. Stavely (505) 835-5126
Minicomputer equipment for computer science instruction and laboratory automation
Digital Equipment Corp. DECLAB minicomputer 11/34
Digital Equipment Corp. graphics display VT11
Digital Equipment Corp. microcomputer LSI-11
Data acquisition; Computer graphics; Systems programming

NM/BZ 540 ISEP
SER 76-14004
New Mexico State University
Department of Biology
Las Cruces, NM 88003
Marvin H. Bernstein (505) 646-3823
Animal and plant physiology laboratories for undergraduate biology majors
Lambda Instrument resistance meter
Grass Instruments stimulator
Grass Instruments preamplifiers
Heath strip chart recorder
Phipps and Bird electrode holder
Tektronix oscilloscope
Radiometer chloride titrator
Lexington Instruments Lex-O_2-Con-TL-oxygen content
Herbach and Rademan thermoelectric cooling module
Lambda quantum sensor, pyranometer sensor, photometric sensor
Air hydraulics diaphragm pump
EG and G dewpoint hygrometer

NM/EN 541 ISEP
SER 76-13997
New Mexico State University
Department of Mechanical Engineering
Las Cruces, NM 88003
P. R. Smith (505) 646-3501
Mechanical engineering undergraduate laboratory
Hewlett Packard electronic counter
Leeds and Northrup 12-channel strip chart recorders
Schoeffel grating monochromator
Endevco accelerometers
Metirz sound and vibration analyzer
Energy; Fluid flow; Heat transfer; Solar energy; Energy conservation; Shock and vibration; Aerodynamics; Dynamics; Mass transfer; Wave propagation; Newton cooling

NM/CS 542 LOCI/RULE
SER 78-00034
New Mexico State University
Department of Computer Science
Las Cruces, NM 88003
Richard H. Stark (505) 646-1605
Curriculum in interactive graphics favoring manufacturing applications
Computer; Geometric modeling; Engineering drafting; Engineering design; Computer science

NM/EN 543 ISEP
SER 77-09712
University of New Mexico
Department of Electrical Engineering and Computer Science
Albuquerque, NM 87131
Harold K. Knudsen
Instructional scientific equipment in engineering

NM/IN 544 LOCI/RULE
SER 77-01916

University of New Mexico
Department of Architecture and Planning
Albuquerque, NM 87131
Wolfgang F. E. Preiser
Course sequence on environmental design and behavior

NM/ZZ 545 LOCI/RULE
SER 76-12533
University of New Mexico
Department of Physics and Astronomy
Albuquerque, NM 87131
Michael Zeilik (505) 277-4442
Junior and senior personalized system of astrophysics instruction
Competency-based; Self-paced; Astronomy

NM/CH 546 ISEP
SER 77-09225
Western New Mexico University
Department of Chemistry
Silver City, NM 88061
Kenneth Ladner (505) 538-6227
Nuclear magnetic resonance spectroscopy
Varian EM-360A nuclear magnetic resonance spectrometer
Continuing education; Technician training; Undergraduate chemistry; Physical chemistry; Organic chemistry; Instrumentan analysis chemistry; Chemistry

NEW YORK

NY/PS 547 ISEP
SER 77-10362
Adelphi University
Department of Psychology
Garden City, NY 11530
Marjorie Caplan
Instructional scientific equipment in psychology

NY/CH 548 LOCI/RULE
SER 77-03200
Canisius College
Department of Chemistry
Buffalo, NY 14208
Joseph F. Bieron (716) 883-7000
Non-science majors courses in energy, environment, chemical technologies
Modules; Honors course; Futures projection; Chemistry

NY/BZ 549 ISEP
SER 76-13582
City University of New York Bernard Baruch College
Department of Natural Sciences
New York, NY 10010
Joan Japha (212) 725-4414 or 725-4463
Improving biology instruction for students interested in pre-professional studies
Beckman liquid scintillation counter LS 100C
Tektronix autoerase storage oscilloscope with camera
Narco Biosystems projector physiograph CPM
Bausch and Lomb Spectronic 20 spectrophotometers
Beckman Zeromatic pH meters SS-3 pH

NY/PH 550 LOCI/RULE
SER 78-00893
City University of New York Bronx Community College
Department of Physics
Bronx, NY 10453
Louis A. DeAcetis (212) 367-7300 Ext. 434
Computer-based testing in a modular remedial physics course
Competency-based; Self-paced; Minority students

NY/EZ 551 ISEP
SER 76-13817
City University of New York Brooklyn College
Department of Geology
Brooklyn, NY 11210
C. E. Nehru (212) 780-5416
Audio visual color television programs in optical mineralogy
Color video cassette player JVC CP5000U
Color video monitor Sharp XR 2134 13 in.
Self-paced; Polarizing microscope; Earth sciences

NY/CS 552 LOCI/RULE
SER 78-00271
City University of New York City College
Department of Computer Science
New York, NY 10031
Stanley Habib (212) 690-6631
Microcomputer software course for undergraduates
Computer; Continuing education; Computer science

NY/PS 553 LOCI/RULE
SER 76-14598
City University of New York City College
Department of Psychology
New York, NY 10031
Ellen E. Smiley (212) 690-8134
Individually designed educational activities for teaching introductory psychology
Kodak Ektagraphic EF Visual Maker
Bell and Howell Ringmaster sound slide projector
Computer; Competency-based; Minority students; Learning packages

NY/CS 554 ISEP
SER 77-11232
City University of New York Queens College
Department of Computer Science
Flushing, NY 11367
Christopher Vickery (212) 520-7471
Minicomputer laboratory for computer science majors
Data Printer 6644 line printer

NY/PH 555 LOCI/RULE
SER 76-14515
City University of New York Richmond College
Department of Physics
Staten Island, NY 10301
Martin Eger
Local course improvement in physics

NY/CH 556 ISEP
SER 77-10416
Clarkson College of Technology
Department of Chemistry
Potsdam, NY 13676
M. M. Green (315) 268-2355
High pressure liquid chromatography
Waters high pressure liquid chromatograph
Chemistry; Analysis; Laboratory

NY/EN 557 ISEP
SER 77-11412
Clarkson College of Technology
Department of Mechanical and Industrial Engineering
Potsdam, NY 13676
Bruce Hollworth (315) 268-2322
Computerized data acquisition for mechanical engineering undergraduates
Digital Equipment PDP 11/34A CPU
Digital Equipment LA36 DECWriter terminal
Digital Equipment AR11 analog real-time subsystem
Digital Equipment dual floppy disk drive
Audiovisual; Computer; Energy; Technically assisted education; Process control

NY/BZ 558 LOCI/RULE
SER 77-03216
Clarkson College of Technology
Department of Biology
Potsdam, NY 13676
John R. Jungck/B. Dennis Sustare (315) 268-6607 or 268-7723
Computer modules for freshmen biology labs
Tektronix 4051 BASIC graphic computer terminal option 21
Tektronix BASIC Plot 50 statistics library
Self-paced; Simulated experiments; Problem solving; Discrete mathematical models; Graphic display; Interactive; Quantitative manipulation of data; Auto-tutorial

NY/CH 559 LOCI/RULE
SER 76-14557
Clarkson College of Technology
Department of Chemistry
Potsdam, NY 13676
Richard Partch (315) 268-2351
Improvement in public understanding of chemicals in food
Audiovisual; Environment; Continuing education; Non-science majors; Chromatography; Vitamins; Plant toxins; Food technology; Animal toxins; Food additives; Chemistry

NY/PH 560 LOCI/RULE
SER 77-01864
Colgate University
Department of Physics and Astronomy
Hamilton, NY 13346
Charles H. Holbrow (315) 824-1000 Ext. 201
Introductory physics with an engineering ambience for non-science majors
Slide projector
Hand-held calculator
Computer graphics terminal
Audiovisual; Non-science majors; Space science; Space colonization; Engineering design; Communications satellites; Rockets; Conservation laws

NY/EZ 561 ISEP
SER 77-10495
Colgate University
Department of Geology
Hamilton, NY 13346
James McLelland (315) 824-1000 Ext. 202
X-ray diffractometer for undergraduate geology corriculum
Diano x-ray diffractometer
Earth sciences

NY/BZ 562 LOCI/RULE
SER 78-00279

College of Mount Saint Vincent
Department of Biology
Riverdale, NY 10471
Helen G. Koritz (212) 549-8000 Ext. 245
Computer extended life laboratory studies for general biology
Data Dimensions Diablo terminal and printer 1620-3
Vadic Corp. chassis VA 1601
Vadic Corp. modem WA 305-G
Inquiry method

NY/BZ 563 ISEP
SER 76-13859
College of Mount Saint Vincent
Department of Biology
Riverdale, NY 10471
Dennis Stainken (212) 549-8000
Lab curricula in estuarine ecology, limnology and comparative physiology
Nikon binocular student microscope S
Mark Co. Scholander respirometer
Wildlife Supply Co. Clark Bompus plankton sampler
Mettler analytical balance
Nikon inverted stage microscope MS
Environment; Competency-based; Technician training; Analytical field surveys; Biology

NY/BZ 564 ISEP
SER 76-12743
Barnard College
Department of Biological Science
New York, NY 10027
Philip V. Ammirato
Instructional scientific equipment in biology

NY/MA 565 LOCI/RULE
SER 78-00027
Cornell University
Department of Mathematics
Ithaca, NY 14853
A. Nerode (607) 256-3577
Modules in history of mathematics
History; Enrichment; Genetic approach

NY/BZ 566 ISEP
SER 76-13714
Cornell University
Division of Nutritional Sciences
Ithaca, NY 14853
M. C. Nesheim (607) 256-2228
Undergraduate laboratory instruction in nutritional science
Spectronic 20 spectrophotometer
Turner fluorometer 110
Fisher Kjeldahl digestion unit Macro-Twin 13-158
Beckman oxygen analyzer with O_2 sensor and flow cell
Lange skinfold calipers
Audiovisual; Pre-college teachers; Women; Food analysis; Body composition measurements; Analysis of energy expenditure; Independent student investigations; Enzymic techniques; Biology

NY/PS 567 ISEP
SER 77-07919
Dowling College
Department of Psychology
Oakdale Long Island, NY 11769
Robert Allan Youth
Instructional scientific equipment in psychology

NY/CH 568 ISEP
SER 77-11945
D'Youville College
Department of Chemistry
Buffalo, NY 14201
J. T. Kresse (716) 886-8100 Ext. 262
Atomic absorption spectrophotometry in undergraduate quantitative analysis
Jarrell Ash Dial-Atom III spectrophotometer
Flame emission spectroscopy; Chemistry

NY/EZ 569 ISEP
SER 77-11168
Hofstra University
Department of Geology
Hempstead, NY 11550
Dennis Radcliffe (516) 560-3289
Improvement of undergraduate studies in petrography
Ingram Ward petrographic thin section equipment 135 and 400
Environment; Intermediate technology; Competency-based; Self-paced; Sample utilization; Earth sciences

NY/BZ 570 ISEP
SER 76-13655
Ithaca College
Department of Biology
Ithaca, NY 14850
Steven R. Thompson (607) 274-3240
Laboratory methods and instruments for introductory biology students
Fisher Acumet 230 pH meter
Mettler analytical balance H31AR
Mettler top loading balance P1200
Gelman electrophoresic chamber 51211 and power supply 38206
American Optical water shaker bath
Audiovisual

NY/BZ 571 ISEP
SER 77-10980
Ladycliff College
Department of Biology
Highland Falls, NY 10928
Arthur V. Stiffey (914) 446-4747 Ext. 67
Construction of inexpensive environmental chamber
Bausch and Lomb Tri-Simplex micro projector
York room air conditioner 8500 BTU
Frohae human anatomical charts
Audiovisual; Environment; Minority students; Women; Non-science majors; Biology

NY/MA 572 LOCI/RULE
SER 76-14496
Long Island University Southhampton Center
Department of Mathematics
Southampton, NY 11968
Robert A. Melter (516) 283-4000
Mathematics and computing for undergraduate marine scientists
Computer; Environment; Differential equations; Linear algebra; Statistics; Monte Carlo methods; Oceanography

NY/ZZ 573 ISEP
SER 77-10768
Long Island University Southampton Center
Marine Science Program
Southampton, NY 11968
Alvin Siegel (516) 283-4000 Ext. 253
Marine science fluorometric determination of chlorophyll and water movement
Turner fluorometer 111-003 and recorder
Environment; Primary productivity; Dye studies; Turbidity studies; Interdisciplinary usage; Biology; Oceanography

NY/CH 574 LOCI/RULE
SER 78-00476
Manhattan College
Department of Chemistry
Bronx, NY 10471
Raymond C. Barile (212) 548-1400 Ext. 204
Integration of analytical, physical and inorganic chemistry laboratories
Computer

NY/EN 575 ISEP
SER 76-13431
Manhattan College
Department of Electrical Engineering
Bronx, NY 10471
George Prans (212) 548-1400 Ext. 422
Solar cell and Schottky diode fabrication, thermoelectricity lab experiments
Keithley 160B digital microvolt multimeters
Ealing XYZ micromanipulators with probeholders
Bausch and Lomb stereo zoom microscope 31-26-94
Genrad Strobotacs 1531-AB
Veeco 12x18in. bell jar and gasket
Energy; Solar energy; Thermoelectric energy; Electrical engineering experiments; Solid state laboratory

NY/BZ 576 ISEP
SER 76-12811
Marist College
Division of Natural Sciences
Poughkeepsie, NY 12601
George B. Hooper (914) 471-3240
Simultaneous recording of three physiological parameters in vertebrates
Narco Biosystems 3-channel physiograph with time-event channel MKIII
Technician training; Heart rate; Muscle contraction; Respiration rate; Diagnostic techniques; Research techniques; Biology; Electrocardiograph activity

NY/CH 577 LOCI/RULE
SER 77-02796
Marist College
Division of Natural Sciences
Poughkeepsie, NY 12601
M. J. Michelson-Thiery (914) 471-3240 Ext. 235
Environmental research institute and simulated undergraduate research laboratory
Environment; Chemistry

NY/IN 578 ISEP
SER 77-10381
Marist College
Division of Natural Sciences
Poughkeepsie, NY 12601
Robert Rehwoldt (914) 471-3240
Electron capture gas chromatography to outfit environmental chemistry laboratory
Varian gas chromatograph
Varian data processor
Varian accessories

Environment; Trace analysis; Interdisciplinary

NY/MA 579 LOCI/RULE
SER 78-00299
Marymount College
Department of Mathematics
Tarrytown, NY 10591
Doris Appleby (914) 631-3200 Ext. 342
Unified lectures with discipline-differentiated labs for elementary statistics
Monroe statistical calculators 1930
Non-science majors; Mathematics

NY/IN 580 ISEP
SER 76-13879
Pace University New York Campus
Department of Biochemistry
New York, NY 10038
D. C. Bacchi (212) 285-3646
Undergraduate equipment grant for interdisciplinary biochemistry course
Bio Rad acrylamine electrophoresic system
Gilson microfractionator FC-80
Pharmacia P-3 pump
Equipment update; Chemistry; Interdisciplinary

NY/EN 581 LOCI/RULE
SER 78-01139
Polytechnic Institute of New York
Department of Chemical Engineering
Brooklyn, NY 11201
R. F. Benenati (212) 643-5533
Interactive flow sheet information processing system
Hewlett Packard desk top computer HP9815A
Computer; Competency-based; Engineering

NY/EN 582 LOCI/RULE
SER 76-14236
Polytechnic Institute of New York
Department of Metallurgy
Brooklyn, NY 11201
Carmine D'Antonio (212) 643-8188
Society and the engineer, and analysis of product failures
Product liability; Engineering

NY/CH 583 LOCI/RULE
SER 77-02989
Polytechnic Institute of New York
Department of Chemistry
Brooklyn, NY 11201
N. C. Peterson (212) 643-5000
Interactive microprocessor simulation of mass spectrometers
Technico Super Starter microcomputer TEC9900-SSU
Cromemco D+7A I/O multi-channel microprocessor analog interface
Microcomputer; Digital electronics; Chemistry

NY/EN 584 ISEP
SER 76-12490
Polytechnic Institute of New York
Computer Science Division
Brooklyn, NY 11201
Joel B. Snyder (212) 643-3910
Programming language translations using microprocessor emulated microcoding
Intel 220 microcomputer and peripherals
Motorola 6800 microcomputer and peripherals
Computer; Engineering

NY/IN 585 LOCI/RULE
SER 78-00165
Rensselaer Polytechnic Institute
Human Dimensions Center
Troy, NY 12181
Robert J. Baum (518) 270-6574 or 270-6413
Computer ethics
Interdisciplinary

NY/EN 586 LOCI/RULE
SER 78-00170
Rensselaer Polytechnic Institute
Department of Civil Engineering
Troy, NY 12181
Michael O'Rourke (518) 270-6360
Application of computer graphics to structural dynamics instruction
Engineering

NY/EN 587 LOCI/RULE
SER 77-03027
Rensselaer Polytechnic Institute
Department of Nuclear Engineering
Troy, NY 12181
L. David Walthousen
Activation analysis techniques using the reactor

NY/PS 588 ISEP
SER 77-09826
Rochester Institute of Technology
Department of Social Science

Rochester, NY 14623
Kathleen Chen (716) 475-2198
Perceptual laboratory for technical students
Stoelting Co. fixation behavior kit 21704
Stoelting Co. rod and frame apparatus 12011
Stoelting Co. tachistoscope 21216
Lafeyette Co. audio signal generator, amplifier and speaker 15015
Marietta Co. cutaneous sensitivity and two-point threshold kit 75A-KT-106
Audiovisual; Computer; Intermediate technology; Handicapped; Technician training; Psychology of perception; Photography; Arts; Biomedical technology; Advertising

NY/IN 589 LOCI/RULE
SER 77-03206
Rochester Institute of Technology
Department of Biology
Rochester, NY 14623
Tom Frederick (716) 475-2496
Electron microscopy technician training program
Intermediate technology; Technician training; Interdisciplinary

NY/CH 590 LOCI/RULE
SER 76-14558
Rochester Institute of Technology
Department of Chemistry
Rochester, NY 14623
Earl Krakower (716) 475-6107
Lecture vitalization using LAP-dissolve projection
Visual Horizons dissolve system
Audiovisual; Self-paced; Non-science majors; Technician training; Chemistry

NY/EN 591 LOCI/RULE
SER 78-00043
Rochester Institute of Technology
Department of Electrical Engineering
Rochester, NY 14623
Raman Unnikrishnan (716) 475-2185
Electromechanical energy conversion for the eighties
Computer; Energy; Electrical machines; Solid state control; Thyristors; Practical considerations; Computer based experiments; Steady state analysis of machines; Development of experiments; Development of course materials; Engineering

NY/PH 592 ISEP
SER 77-11087
Rochester Institute of Technology
Department of Physics
Rochester, NY 14623
Jerome Wagner (716) 475-2538
Advanced physics and nuclear medicine technology laboratory improvement project
Ortec hyperpure germanium gamma spectroscopy system
Neutron source and detection system
Nuclear coincidence techniques system
Thermoluminescence dosimetry system
Nuclear instrumentation

NY/BZ 593 LOCI/RULE
SER 78-00498
Russell Sage College
Department of Biology
Troy, NY 12180
B. D. Bhatt (518) 270-2236 or 270-2244
Lecture, laboratory manuals, and audiovisual aids in vertebrate physiology
Environment; Self-paced; Slide-tape lectures; Human physiology; Simulating models; Independent projects; Biology

NY/BZ 594 ISEP
SER 76-14056
Saint Joseph's College
Department of Biology
Brooklyn, NY 11205
Carol J. Hayes
Instructional scientific equipment in biology

NY/PH 595 ISEP
SER 77-11415
Saint Lawrence University
Department of Chemistry, Physics, and Mathematics
Canton, NY 13617
O. G. Brandt (315) 379-5493
Computer interface to upgrade undergraduate chemistry and physics laboratories
Digital Equipment PDP-11/03 microcomputer
Digital Equipment analog to digital converter
Intermediate technology; Fortran software; Digital analog hybrid computer; Laboratory data processing

NY/IN 596 LOCI/RULE
SER 78-00487
Saint Lawrence University
Department of Psychology
Canton, NY 13617
John A. Ross (315) 379-6004
Interdisciplinary approach to science education
Sartorius balance type 3716 and keyboard

NY/PS 597 ISEP
SER 76-12493
Skidmore College
Department of Psychology
Saratoga Springs, NY 12866
Augustus R. Lumia
Instructional scientific equipment in psychology

NY/PH 598 ISEP
SER 76-12890
State University of New York at Albany
Department of Physics
Albany, NY 12222
G. William Reynolds (518) 457-8340 or 457-8333
Principles of biomedical electronic instrumentation
Tektronix T932 oscilloscopes
Pasco biomedical modular instrumentation series
Pasco cardiovascular simulator
ECG simulator
Intermediate technology; Pre-college teachers; Non-science majors; Technician training; Laboratory centered; Medical electronics; Physics

NY/PH 599 ISEP
SER 76-13779
State University of New York at Binghamton
Department of Physics
Binghamton, NY 13901
Sol Raboy (607) 754-2857
Basic principles applied radiation physics
Nucleus Inc. scintillation spectrometry system AA-2010
Nucleus Inc. absorber set A15
Nucleus Inc. survey meter S-101
ORTEC spectroscopy amplifier 472
ORTEC preamplifier 120-3F
Environment; Continuing education; Minority students; Pre-college teachers; Women; Handicapped; Non-science majors; Technician training; Detection and absorption of beta rays; Detection and absorption of gamma rays; Life time measurement; Spectroscopy of gamma rays; Compton effect measurement; Position annihilation; X-rays

NY/PS 600 LOCI/RULE
SER 77-03081
State University of New York at Binghamton
Department of Psychology
Binghamton, NY 13901
Raymond G. Romanczyk (607) 798-2829
Behavior analysis and modification with severely disturbed children
Sykes dual density dual floppy disk unit
SOL-20 computer terminal
Psychology; Practicum; Laboratory

NY/EN 601 ISEP
SER 76-13853
State University of New York at Binghamton
Department of Engineering
Binghamton, NY 13901
John F. Sarnicola
Instructional scientific equipment in engineering

NY/IN 602 LOCI/RULE
SER 76-14478
State University of New York at Binghamton
Department of Chemistry
Binghamton, NY 13901
Lawrence Verbit (607) 798-2517
Training undergraduate science majors in science reporting
Women; Non-science majors; Science reporting; Mass media; Science communication; Interdisciplinary

NY/EN 603 ISEP
SER 77-11887
State University of New York at Buffalo
Department of Chemical Engineering
Buffalo, NY 14260
Kenneth M. Kiser (716) 831-4717
Transport processes laboratory for undergraduate engineers
Scott Engineering double pipe heat exchanger 9052B
Scott Engineering radiation heat transfer system 9053
Ferranti rotational viscometer VL
Engineering Lab Design wetted-wall column 209
Engineering Lab Design diffusion cell 208
Hewlett Packard strip chart recorder 71000B
Tektronix recording oscilloscope 5115
Dies hot wire anemometer 55M01
Hewlett Packard digital multimeter 3469B
K and E Schlieren system
Gow Mac gas chromatograph 69-550
Energy; Engineering majors; Fluid mechanics; Heat transfer; Mass transfer

NY/SZ 604 LOCI/RULE
SER 77-03239
State University of New York at Buffalo
Department of Geography
Buffalo, NY 14260
Duane F. Marble
Interactive computer graphics in geographic analysis

NY/CS 605 LOCI/RULE
SER 77-2400
State University of New York at Buffalo
Department of Computer Science
Amherst, NY 14226
Anthony Ralston (716) 831-1351
Structured FORTRAN for the first course in computer science
Programming languages; Computer science education; Compilers

NY/EN 606 LOCI/RULE
SER 78-00490
State University of New York at Buffalo
Department of Chemical Engineering
Amherst, NY 14226
Michael E. Ryan (716) 636-2914
Computer-aided process design and simulation
Computer; Flowtran; Chemical engineering; Process engineering; Process synthesis; Engineering

NY/BZ 607 ISEP
SER 77-10922
State University of New York College at Brockport
Department of Biology
Brockport, NY 14420
Joseph Makarewicz (716) 395-2476
Equipment for laboratories in aquatic ecology
Bausch and Lomb Spectronic 88
Turner fluorometer III
Ponar grab dredge Wildco Co.
KB heavy duty core sampler Wildco Co.
Corning pH meter 610A
Environment; Technician training; Water chemistry; Limnology; Pollution; Fishery biology; Algal ecology; Biology

NY/SZ 608 ISEP
SER 76-13890
State University of New York College at Buffalo
Department of Sociology
Buffalo, NY 14222
Orvis F. Collins
Instructional scientific equipment in social sciences

NY/BZ 609 ISEP
SER 76-11404
State University of New York College at Cortland
Department of Biological Sciences
Cortland, NY 13045
Barry L. Batzing (607) 753-2716
Multiple viewing microscope for teaching advanced methods in microbiology
Bausch and Lomb BALPLAN brightfield microscope CLXXTIX
Multiple viewing adapter with pointer 31-18-85
Triocular head 31-18-79
Tungsten halogen fluorescence lamphouse 31-32-61
Cardioid darkfield condenser 31-32-59
Phase contrast objectives 10X, 20X, 40X, 100X
FITC filter 31-35-16
Brightfield 100X objective with iris
Camera kit 35mm 42-12-29-15
Transformer 31-35-40
Non-science majors; Bacteriology; Biology

NY/CH 610 LOCI/RULE
EPP 76-01482
State University of New York College at Cortland
Department of Chemistry
Cortland, NY 13045
P. M. Jeffers (607) 753-4323
Modern laboratory study of chemical kinetics
ISA Inc. monochrometer H-20
Chemistry

NY/ZZ 611 ISEP
SER 76-12054
State University of New York College of Environmental Science and Forestry
Forest Technician Program
Wanakena, NY 13695
John J. Sterbenz (315) 848-2566
Purchase computing equipment for Wanakena campus
Data general Nova 3/12 computer 32K core
Disk subsystem 10 megabyte
Floppy disk subsystem
Computer; Self-paced; Technician training; Forest technician; Surveying technician; Simulations

NY/CH 612 ISEP
SER 77-10343
State University of New York College at Fredonia
Department of Chemistry
Fredonia, NY 14063
P. L. Kumler (716) 673-3281
Incorporation of NMR spectroscopy into undergraduate organic laboratory
Varian NMR spectrometer EM360A
Chemistry

NY/IN 613 ISEP
SER 76-13003

State University of New York College at Geneseo
Department of Physics and Astronomy
Geneseo, NY 14454
David D. Meisel
Instructional scientific equipment in interdisciplinary science

NY/EZ 614 LOCI/RULE
SER 78-00001
State University of New York College at Oneonta
Department of Geography
Oneonta, NY 13820
Paul R. Baumann (607) 431-3150
Interpretation of satellite imagery by computer quantitative methods
Environment; Geography; Landsat; Earth sciences

NY/CH 615 ISEP
SER 76-12718
State University of New York College at Oswego
Department of Chemistry
Oswego, NY 13126
Augustine Silveira Jr. (315) 341-3048
Project-oriented organic laboratories
Varian EM-360 60-MHz proton NMR spectrometer, lock/decoupler and oscilloscope
Minority students; Pre-college teachers; Women; Integrated laboratory; Undergraduate; Chemistry

NY/PH 616 LOCI/RULE
SER 78-00050
State University of New York College at Potsdam
Department of Physics
Potsdam, NY 13676
Kenneth H. Thygesen (315) 268-3325
Short courses on special topics in physics
Self-paced; Experimental physics; Individual instruction; Solid state; Materials science; Plasma

NY/CH 617 LOCI/RULE
SER 78-00703
State University of New York Agricultural and Technical College at Alfred
Department of Chemistry
Alfred, NY 14802
Frederick J. Kryman (607) 871-6159
Basic chemical instrumentation with media assistance
Audiovisual; Computer; Continuing education; Pre-college teachers; Technician training; NMR spectrophotometry; HPLC; Fluorescence spectrophotometry; Atomic absorption spectrophotometry; GC; Computer assisted instruction

NY/EN 618 ISEP
SER 76-13585
State University of New York Agricultural and Technical College at Farmingdale
Department of Construction Technology
Farmingdale, NY 11735
Howard Crandell
Instructional scientific equipment in engineering

NY/BZ 619 LOCI/RULE
SER 78-00057
Dutchess Community College
Department of Biological Sciences
Poughkeepsie, NY 12601
Eleanor K. Marr (914) 471-4500 Ext. 358
Modules in aquatic microbiology for microbiology, non-microbiology courses
Audiovisual; Environment; Self-paced; Non-science majors; Water pollution; Ecology; Laboratory techniques; Biology; Bacteriology

NY/CH 620 LOCI/RULE
EPP 75-19809
Genessee Community College
Department of Chemistry
Batavia, NY 14020
Carl L. Lewis
Genessee Community College science program at Attica Correctional Facility

NY/MA 621 ISEP
SER 76-12083
Jefferson Community College
Department of Mathematics
Watertown, NY 13601
James K. Baker (315) 782-5250
Improvement in statistics instruction using calculators
Monroe statistical calculator 1930
Monroe programmable calculator 1860
Continuing education; Non-science majors; Technician training; Mathematics

NY/MA 622 LOCI/RULE
SER 77-02283
Suffolk County Community College
Department of Mathematics
Selden, NY 11784
Sheldon P. Gordon (516) 233-5291
Computer oriented calculus using finite differences and discrete models
Digital Equipment Corp. PDP-11/34 minicomputer system
Digital Equipment Corp. DECWriter II teletype terminals
Digital Equipment Corp. LA36 printers
Tektronix graphics terminals 4006 with hard copy
Applied Digital Data Systems CRT terminals Regent 200
Non-science majors; Discrete approach to calculus; Numerical methods; Mathematics

NY/EN 623 LOCI/RULE
SER 78-00313
Ulster County Community College
Department of Water Management
Stone Ridge, NY 12484
Richard B. Glazer (914) 687-7621
Educational system utilizing water management modules
Arthur Thomas Co. multiple stirring apparatus 8597-M10
Audiovisual; Environment; Self-paced; Continuing education; Minority students; Technician training

NY/BZ 624 ISEP
SER 77-10801
Weschester Community College
Department of Biology
Valhalla, NY 10595
Kathryn Malone
Instructional scientific equipment in biology

NY/EN 625 ISEP
SER 77-09816
Syracuse University
Department of Mechanical and Aerospace Engineering
Syracuse, NY 13210
D. S. Dosanjh (315) 423-2618
Instructional equipment for acoustics and noise control undergraduate courses
B and K standing wave and impedance tube apparatus type 4002
B and K type 1023 sine wave generator
Environment; Minority students; Women; Non-science majors; Technician training; Noise pollution; Architectural acoustics; Machinery noise; Industrial noise control; Flow related noise and control; Duct noise; Bioacoustics; Engineering

NY/CH 626 ISEP
SER 77-11027
Union College
Department of Chemistry
Schenectady, NY 12308
William B. Martin, Jr. (518) 370-6249
Undergraduate science major hands-on technical training in mass spectrometry
Computer; Intermediate technology; Women; Technician training; Chemistry; Chemical instrumentation; Senior research; Analysis; Organic research; Chromatography; Physical chemistry

NY/EN 627 LOCI/RULE
SER 78-00716
University of Rochester
Institute of Optics
Rochester, NY 14627
Edward M. Brody (716) 275-5135
Optics for pre-college science teachers and scientists
Audiovisual; Pre-college teachers; Women; Non-science majors; Careers in optics; Demonstration lectures; Engineering

NY/EN 628 ISEP
SER 77-11960
University of Rochester
Department of Electrical Engineering
Rochester, NY 14627
Lloyd P. Hunter (716) 275-4057
Semiconductor material and device project laboratory stressing data validation
Hewlett Packard LCR meter 4332A
Tektronix 465 oscilloscope
Hewlett Packard 3465A digital multimeter
Keithley 160B digital multimeter
Hewlett Packard 6205B dual DC power supply
Intermediate technology; Photoconductivity; Minority carrier lifetime; Bipolar transistor; IGFET; Junction diode; Device design based performance; Material parameter based performance; Resistivity versus temperature in semiconductor; Hall effect in semiconductors; Ohmic contacts; Engineering

NY/PH 629 ISEP
SER 77-10817
University of Rochester
Institute of Optics
Rochester, NY 14627
Kenneth Teegarden
Instructional scientific equipment in physics

NY/CH 630 ISEP
SER 76-12432
Vassar College
Department of Chemistry
Poughkeepsie, NY 12601
R. D. Braun (318) 264-6737
Atomic absorption and mass spectrometry in analytical organic chemistry
Varian mass spectrometer EM-600
Jarrell Ash Dial Atom III atomic absorption spectrophotometer

Environment; Instrumental analysis; Qualitative organic chemistry

NY/PS 631 LOCI/RULE
SER 77-02339
Vassar College
Department of Psychology
Poughkeepsie, NY 12601
Anne Constantinople (914) 452-7000 Ext. 2260
Modular approach to methodological issues in psychological research
Psychology

NY/BZ 632 LOCI/RULE
SER 77-02421
Vassar College
Department of Biology
Poughkeepsie, NY 12601
Leathem Mehaffey III (914) 452-7000 Ext. 2483
Application of modern quantitative techniques to biological problems
Narco Biosystems Narco Trace 2-channel digital oscilloscope
Computer; Computer data aquisition; Computer data analysis; Numerical analysis; Systems analysis; Physiology; Mathematical modeling; Computer simulation; Biology

NY/EN 633 LOCI/RULE
SER 76-14609
Webb Institute of Naval Architecture
Department of Engineering
Glen Cove, NY 11542
Joseph Urban (516) 671-2215
Options in junior and senior year in professional courses
Naval architecture; Marine engineering; Design; Hydrodynamics; Structures; Engineering

NY/EN 634 ISEP
SER 76-13595
Webb Institute of Naval Architecture
Department of Engineering
Glen Cove, NY 11542
Lawrence W. Ward
Instructional scientific equipment in engineering

NORTH CAROLINA

NC/CH 635 ISEP
SER 77-12099
Davidson College
Department of Chemistry
Davidson, NC 28036
J. N. Burnett (704) 892-2000 Ext. 306
NMR spectrometer for organic chemistry
Varian EM 360L NMR spectrometer
Molecular structure; Analytical instrumentation

NC/PS 636 ISEP
SER 76-13320
Davidson College
Department of Psychology
Davidson, NC 28036
John D. Kelton (704) 892-2000 Ext. 219
Undergraduate instruction/research in behavior observation and auditory information processing
Panasonic video cassette recorder, camera, monitor
Tektronix spectrum analyzer
Hewlett Packard audio oscillator
Scientific Prototype voice key
Hunter counter timer
Grayson Stadle, digital printer counter
Audiovisual; Psychology

NC/PH 637 ISEP
SER 77-10826
Duke University
Department of Physics
Durham, NC 27706
L. R. Fortney (919) 684-8179
Digital electronics laboratory interfaced to an on-line computer
B and K Precision Corp. oscilloscope 1474
Signetics Corp. 2650 microprocessor instructor
Physical measurement; Computer science; Engineering; Physics

NC/IN 638 ISEP
SER 77-11639
Durham College
Department of Arts and Sciences
Durham, NC 27707
Talbert Myers (919) 683-2561 Ext. 235
Laboratory assisted biology and chemistry for two-year college
Fisher water bath 22
Fisher automatic clinical microtome A0880
Fisher BOD incubator 146
Fume hood SH4004
Blower 2C3301-CO and weather cover
Minority students; Women; Non-science majors; Technician training; Bacterial identification; Histological preparations; Chemical experiments; Interdisciplinary

NC/BZ 639 ISEP
SER 76-12092
Pfeiffer College
Department of Biology
Misenheimer, NC 28109
R. H. Crowl (704) 463-7343 Ext. 275
Improved instruction in cell biology and biochemistry
Bausch and Lomb uv spectrophotometer 710
Castle tissue culture incubation 1250
Bausch and Lomb phase contrast microscope CRB PTH1
Artex sonic dismembrator 300
Self-paced

NC/PS 640 ISEP
SER 77-11737
Sacred Heart College
Department of Psychology
Belmont, NC 28012
Paul D. Mabry (704) 825-5146 Ext. 238
Experimental psychology laboratory for undergraduate instruction
Lafayette animal cages and stands A-75, A-75AS, A-75BS
Lafayette deluxe student operant behavior systems 84022
Kopf small animal stereotaxic instrument 900
Texas Instruments SR-60 programmable calculator
Gerbrands programming equipment G-3100-G-4670
Animal behavior; Physiological psychology; Experimental psychology; Learning theory and principles; Behavior modification; Classroom demonstration; Student research

NC/MA 641 LOCI/RULE
SER 78-00436
Appalachian State University
Department of Mathematical Sciences
Boone, NC 28608
James R. Smith (919) 933-6981
Undergraduate mathematical modelling problems
Texas Instruments programmable calculators
Mathematics

NC/BZ 642 LOCI/RULE
SER 77-03011
East Carolina University
Department of Biology
Greenville, NC 27834
James I. McDaniel (919) 757-6718
Field studies program for science students
Environment; Biology

NC/ZZ 643 ISEP
SER 76-13303
East Carolina University
Department of Medical Technology
Greenville, NC 27834
Susan T. Smith (919) 757-6961
Gamma counter for student instruction in radioimmunoassay
Ames Co. gamma counter Gammacord 5230
Clinical chemistry; Medical technology; Health science

NC/EN 644 ISEP
SER 77-10762
North Carolina Agricultural and Technical State University
Department of Electrical Engineering
Greensboro, NC 27411
Stewart Stanton (515) 294-8774
Power systems laboratory to simulate systems using miniaturized equipment
Lab-Volt power systems laboratory
Miniaturized power laboratory
Energy; Self-paced; Machinery laboratory; Electric machinery; Engineering

NC/EN 645 ISEP
SER 77-10735
North Carolina State University at Raleigh
Department of Electrical Engineering
Raleigh, NC 27607
Alfred J. Goetze (919) 737-2335
Computer control of an interconnected model power system
Lab-Volt electric power transmission system 8110-8942
Motorola microcomputer MEK 6800D2
Digital Equipment Corp. microcomputer PDP 11/03
Lear Siegler Inc. video display terminal ADM-3A
Heathkit paper tape reader punch H10
Energy; Engineering

NC/BZ 646 ISEP
SER 76-12693
North Carolina State University at Raleigh
Department of Zoology
Raleigh, NC 27607
George G. Shaw
Instructional scientific equipment in biology

NC/IN 647 ISEP
SER 76-13628
University of North Carolina at Chapel Hill
Department of Research and Social Sciences
Chapel Hill, NC 27514

Ellen S. Vasu
Instructional scientific equipment in interdisciplinary science

NC/CH 648 ISEP
SER 76-13395
Western Carolina University
Department of Chemistry
Cullowhee, NC 28723
John J. Manock
Computer-assisted instruction in general chemistry
Digital Equipment Corp. RX01 floppy disk
Computer; Self-paced

NC/EZ 649 LOCI/RULE
SER 77-02356
Western Carolina University
Department of Earth Sciences
Cullowhee, NC 28723
P. Gary White (704) 293-7268
Student interpretation of landsat imagery
Landsat 1:1,000,000 black-white images
Landsat 1:1,000,000 false color images
Environment; Remote sensing; Physical geography; Cultural geography; Physical geology; Earth sciences; Geography; Geology

NC/PS 650 ISEP
SER 77-11817
Wake Forest University
Department of Psychology
Winston-Salem, NC 27109
Robert C. Beck
Instructional scientific equipment in psychology

NC/ZZ 651 ISEP
SER 77-10299
Warren Wilson College
Department of Biology
Swannanoa, NC 28778
Thomas R. McKinney (704) 298-3325 Ext. 56
Environmental studies program field equipment project
Hach Chemical fecal coliform kit B1217A
LaMotte Chemical Co. air pollution pump and associated kits
Lab-Line environmental chamber
Hach Chemical Water quality kit DRE-1A
Sargent Welch ecology study system 8380
Social ecology; Resource management; Environmental education; Historical human impact; Forestry; Pollution survey; Pollution analysis

NORTH DAKOTA

ND/BZ 652 LOCI/RULE
SER 77-03201
Minot State College
Division of Science
Minot, ND 58701
John A. Ward (701) 852-3100
Videotaped FM simulations in physiology laboratory for health science
JVC videotape recorder CR 6060 U
Sony Unimedia color monitor receiver ULT-1903
Narco Biosystems Inc. physiograph DMP-4B
A. R. Vetter Co. FM recording adaptor model 4
Audiovisual; Electrophysiology; Frequency modulation; Biology

ND/EN 653 ISEP
SER 76-13391
North Dakota State University
Department of Architecture
Fargo, ND 58102
Cecil D. Elliott
Instructional scientific equipment in engineering

ND/CH 654 ISEP
SER 77-10878
North Dakota State University
Department of Biochemistry
Fargo, ND 58102
Allan G. Fischer (701) 237-7831
Project type experiments emphasizing molecular biochemistry for pre-professional students
Perkin Elmer 570 recording spectrophotometer with cell programmer
Automatic 4-position cell programmer for Coleman 124 spectrophotometer
Tekmar Tissumizer
Buchler Polyanalyst disc gel electrophoresis
Buchler power supply
Intermediate technology; Competency-based; Medical technology; Pharmacy majors; Premedical study; Tissue processing; Data handling; Enzyme isolation; Chemistry

ND/BZ 655 ISEP
SER 76-12624
North Dakota State University
Department of Zoology
Fargo, ND 58102
Jeffery W. Gerst (701) 237-7207
Measurement of intracellular and extracellular bioelectrical potentials
Mentor N-950 intracellular probe system
Stoelting P1 intracellular probe system
Gould Brush 220 dual channel recorder
Tektronix 5113 dual beam storage oscilloscope
Grass S44 stimulator
Intermediate technology; Biology

ND/CH 656 ISEP
SER 77-11484
North Dakota State University
Department of Chemistry
Fargo, ND 58102
Richard Hilderbrandt (701) 237-8694
Computer assisted instruction in undergraduate chemistry
Tektronix graphics computer 4051
Interactive digital plotter 4662
Commodore PET computer 2001
Computer

ND/EN 657 ISEP
SER 76-13985
North Dakota State University
Department of Civil Engineering
Fargo, ND 58102
Stanley L. Klemetson
Instructional scientific equipment in civil engineering

ND/BZ 658 LOCI/RULE
SER 78-00360
North Dakota State University
Department of Entomology
Fargo, ND 58102
Christian Y. Oseto (701) 237-7581
Lap-dissolve for use in teaching in the biological sciences
Spindler and Saupe Lap dissolve unit
Nikon microlens
Audiovisual; Biology

ND/EZ 659 LOCI/RULE
SER 77-02996
University of North Dakota
Department of Geology
Grand Forks, ND 58202
T. A. Cross (701) 777-2011
Suite approach in teaching introductory sedimentology
Nikon AFM Microflex camera with 35mm for photomicroscopy
Polaroid back for Nikon AFM Microflex camera
Earth sciences

ND/BZ 660 LOCI/RULE
SER 76-14931
University of North Dakota
Department of Biology
Grand Forks, ND 58202
L. Elliot Shubert (701) 777-2621
Teaching about algae with an audio-tutorial module
Audiovisual; Environment; Self-paced; Phycology; Ecology; Taxonomy; Biology

OHIO

OH/CH 661 LOCI/RULE
SER 77-02324
Antioch College
Department of Chemistry
Yellow Springs, OH 45387
David A. Ucko (513) 767-7331 Ext. 548 or 334
Integrated general chemistry for independent study through audiovisual modules
Kodak Ektagraphic 400 audioviewer
Competency-based; Self-paced; Self-instructional units

OH/EN 662 ISEP
SER 77-11938
Bowling Green State University
Department of Industrial Education and Technology
Bowling Green, OH 43402
Kenneth Elchinger
Instructional scientific equipment in engineering

OH/PH 663 ISEP
SER 77-11442
Bowling Green State University
Department of Physics
Bowling Green, OH 43402
Kenneth Mocker
Instructional scientific equipment in physics

OH/CH 664 LOCI/RULE
SER 76-14800
Bowling Green State University
Department of Chemistry
Bowling Green, OH 43402
D. C. Neckers (419) 372-2034
Economics of undergraduate laboratory instruction
Energy; Environment; Organic chemistry; Laboratory operation; Experiment design; Conservation; Toxic substances control; Chemistry

OH/PH 665 LOCI/RULE
SER 78-00223
Bowling Green State University
Department of Physics
Bowling Green, OH 43402
Charles T. Shirkey
Microcomputers and LSI in an electronics course for pre-professionals

OH/BZ 666 ISEP
SER 76-13558
Case Western Reserve University
Department of Biology
Cleveland, OH 44106
J. F. Koonce (216) 368-3561
Application of quantitative notions to undergraduate instruction in biology
Digital Equipment Corp. PDP 11/34 computer
Tektronix graphic terminal 4010
Tektronix graphic tablet 4954
Varian Statos 42 electrostatic printer plotter
Audiovisual; Computer

OH/EN 667 LOCI/RULE
SER 77-03082
Case Western Reserve University
Department of Chemical Engineering
Cleveland, OH 44106
J. A. Mann Jr.
Increased computational capability in the chemical engineering department with APL

OH/EN 668 LOCI/RULE
SER 78-00003
Case Western Reserve University
Department of Metallurgy and Material Science
Cleveland, OH 44106
John F. Wallace (216) 368-4230
Development of a course on recycling of materials
Audiovisual; Computer; Environment; Intermediate technology; Reclamation; Salvage; Reuse; Conservation of materials; Conservation of energy; Engineering

OH/EN 669 ISEP
SER 77-10724
Cleveland State University
Department of Electrical Engineering
Cleveland, OH 44115
John F. Donoghue (216) 687-3535
Control systems laboratory for electrical, mechanical, chemical engineering seniors
Feedback Inc. servo control system MS 150-2
Feedback Inc. process control simulator PGS 327
Feedback Inc. pneumatic position control system PCM 140
Hewlett Packard x-y plotter 7015A-002
Feedback Inc. digital control system NC40X

OH/PS 670 ISEP
SER 76-14134
College of Wooster
Department of Psychology
Wooster, OH 44691
Gordon Collins (216) 264-1234 Ext. 462
Biofeedback laboratory for undergraduate independent research
Coulbourn Instruments bioamplifier coupler S75-01
Coulbourn Instruments solid state power supply S15-05
Coulbourn Instruments skin resistance module S71-20
Coulbourn Instruments voltage controlled oscillator S24-05
Coulbourn Instruments high speed printing counter R22-16
Operant conditioning; Emg; Alpha rhythm; Audio; Psychology

OH/PS 671 LOCI/RULE
SER 78-00016
College of Wooster
Department of Psychology
Wooster, OH 44691
Alfred E. Hall (216) 264-1234 Ext. 464
Psychology as a natural-science: lab courses for non-science majors

OH/EZ 672 ISEP
SER 77-11506
College of Wooster
Department of Geology
Wooster, OH 44691
F. L. Koucky
Instructional scientific equipment in earth sciences

OH/CH 673 LOCI/RULE
SER 77-02995
Cuyahoga Community College Western Campus
Department of Chemistry
Parma, OH 44130
Ethelreda Laughlin (216) 845-4000
Mastery learning with computer assisted testing
Intelligent Systems CRT 8001
RAM 8K by 8, telephone and cable connections
Sharp cassette player Casseducator RD 650AV
Fryan A-V Equipment Co. headphones MX-300
Sharp cassette player Casseducator RD 465AVI
Self-paced; Women; Nursing; Paramedical study; Chemistry

OH/PH 674 LOCI/RULE
SER 77-02814
Denison University
Department of Physics
Granville, Ohio 43023
Roderick M. Grant (614) 587-0810 Ext. 506
Computer based modular exercies for introductory physics
Tektronix graphics terminal 4010-1
Computer terminal Carousel projector interface
Bioscience students

OH/SZ 675 LOCI/RULE
SER 78-00167
Denison University
Department of Sociology and Anthropology
Granville, OH 43023
Edward Vacha/David Potter (614) 587-0810
Interdisciplinary introductory video tape course in sociology and anthropology
Audiovisual; Social sciences

OH/SZ 676 LOCI/RULE
SER 76-14594
Heidelberg College
Department of Politics and Government
Tiffin, OH 44883
John Bing (419) 448-2496
Consultant prepared data-based reading assignments for political science mini-courses
Sony video cassettes
Sony video tape
Scotch data cartridge DC 300A
Audiovisual; Computer; Self-paced; Experimental learning; Loudspeaker telephone; Social sciences

OH/MA 677 ISEP
SER 76-13977
Heidelberg College
Department of Physics and Mathematics
Tiffin, OH 44883
Martin Reno
Graphics terminal for modeling and simulation
Tektronix graphics terminal 4051
Tektronix plotter 4662
Computer; Non-science majors

OH/PH 678 ISEP
SER 76-14075
John Carroll University
Department of Physics
Cleveland, OH 44118
Harry C. Nash (216) 491-4301
Engineering physics equipment and interfacing with microcomputers
Tektronix desk top graphic computing system 4051
Panametrics ultrasonic pulser receiver 5055
Computer; Acoustics; Ultrasonics; Microprocessor; Microcomputer; Computer interface; X-ray; Data acquisition

OH/EZ 679 LOCI/RULE
SER 77-02983
Kent State University
Department of Geology
Kent, OH 44242
Alan H. Coogan (216) 672-2385
Introductory physical geology for law enforcement studies students
Competency-based; Self-paced, partially; Non-science majors; Undergraduate; Field and laboratory; Earth sciences; Laboratory

OH/EZ 680 ISEP
SER 77-08775
Kent State University
Department of Geology
Kent, OH 44242
Donald F. Palmer (216) 672-2680
Geophysical education using a signal stacking seismic system
Bison 1580 signal enhancement seismograph
Bison 1415 digital cassette recorder
Bison Polaroid camera attachment
Lafayette Dynacom walkie-talkies
Earth sciences

OH/PH 681 LOCI/RULE
SER 78-00596
Kent State University
Department of Physics
Kent, OH 44242
Nathan Spielberg (216) 672-2881
Physics and technology of materials
Intermediate technology; Solid state physics; Metallurgy

OH/MA 682 LOCI/RULE
SER 76-14562
Marietta College
Department of Mathematics

Marietta, OH 45750
Neil Bernstein (614) 373-4643 Ext. 233
Modeling problems from local industry
Computer; Mathematics

OH/CH 683 ISEP
SER 76-12450
Miami University
Department of Chemistry
Oxford, OH 45056
Gilbert Gordon (513) 529-2813
Chemistry laboratory computer assisted data collection
Digital Equipment 11F34 minicomputer system
Digital Equipment VT55-FA graphics terminal
Digital Equipment ADK11-KT A/D converter
Digital Equipment DR11-KT digital I/O
Digital Equipment RT-11 Fortran laboratory applications software

OH/PH 684 ISEP
SER 77-10850
Miami University
Department of Physics
Oxford, OH 45056
John W. Snider (513) 590-5515
Laboratory instruction in modern scientific techniques for physics students
Superconducting Technology Inc. superconducting magnet
E and L Instruments Inc. digital electronics instruction course
Ealing Mossbauer system
Eberline neutron detector
Automation Industries ultrasonic transducers
Environment; Intermediate technology

OH/SZ 685 LOCI/RULE
SER 77-02393
Oberlin College
Department of Sociology and Anthropology
Oberlin, OH 44074
Stephen J. Cutler (216) 775-8372
Computer based approach to teaching introductory sociology
Secondary analysis; Empirical research; Social sciences

OH/PS 686 LOCI/RULE
SER 78-00295
Oberlin College
Department of Psychology
Oberlin, OH 44074
W. J. Friedman (216) 775-8365
Undergraduate laboratory course in developmental psychology
Computer

OH/EZ 687 ISEP
SER 76-12638
Oberlin College
Department of Geology
Oberlin, OH 44074
William R. Skinner
Instructional scientific equipment in earth sciences

OH/PS 688 ISEP
SER 77-11911
Oberlin College
Department of Psychology
Oberlin, OH 44074
E. L. Van Atta (216) 775-8366
Upgrading lab facilities for neuroscience instruction
Harris cryostat
Stoelting hydraulic microdrive
D. Kopf hydraulic microdrive
Fintronics signal processor
Hewlett Packard strip chart recorder
Grass Instruments audio monitor
A. V. Educational Systems Inc. TV stand
Computer; Intermediate technology; Self-paced; Minority students; Women; Technician training; Neuroanatomy; Neurophysiology; Neurochemistry; Psychology

OH/IN 689 LOCI/RULE
SER 77-03017
Ohio State University
Department of Nuclear Engineering or Teaching Aids Laboratory
Columbus, OH 43210
Walter E. Carey/Alan D. Evans (614) 422-9038 or 422-2345
Studies on radiation, projection, and radioactivity for science majors
Audiovisual; Energy; Environment; Self-paced; Continuing education; Radiation detection; Biological effects; Waste disposal; Interdisciplinary

OH/BZ 690 ISEP
SER 76-13306
Ohio State University
Department of Plant Pathology
Columbus, OH 43210
Ira W. Deep (614) 422-1865
Improved use of kodachromes and microscope slides in teaching
American Optical microstar series 20 microscope
RCA Corp. video camera
Panasonic TR 220 M TV sets
Bell and Howell Kodachrome slide viewers
Kodak slide projectors
Prima rear projector screens
Audiovisual; Plant pathology; Biology

OH/PH 691 ISEP
SER 76-12834
Ohio University
Department of Physics
Athens, OH 45701
Earle R. Hunt (614) 594-6382
Ealing-Daybell Stern-Gerlach apparatus
Ealing student 4inch magnet
Ealing magnet power supply
Physics

OH/EN 692 ISEP
SER 77-07920
Ohio University
Department of Mechanical Engineering
Athens, OH 45701
Roy A. Lawrence
Instructional scientific equipment in mechanical engineering

OH/EZ 693 ISEP
SER 77-12006
Ohio University
Department of Geology
Athens, OH 45701
G. W. Smith (614) 594-6397
Equipment purchase for improvement of geophysics program
Worden gravity meter
Varian portable proton magnetometer
Bison seismic instrument
Diablo hard copy terminal
Computer; Energy; Intermediate technology; Field-oriented training; Exploration geophysics; Data acquisition and reduction; Earth sciences

OH/MA 694 LOCI/RULE
SER 77-02416
University of Akron
Department of Mathematics and Statistics
Akron, OH 44325
Leonard Sweet (216) 375-7402
Modular and multimedia approach to introductory statistics
Lansford Publishing Co. statistics transparencies
Video cassette recording tapes
Reel-to-reel video recording tapes
Audiovisual; Non-science majors; Mathematics

OH/PH 695 ISEP
SER 76-13175
University of Cincinnati
Department of Physics
Cincinnati, OH 45221
William C. H. Joiner
Instructional scientific equipment in physics

OH/BZ 696 ISEP
SER 77-04663
University of Toledo
Department of Biology
Toledo, OH 43606
Robert E. Gatten Jr. (419) 537-2451
Comparative animal physiology laboratory
Yellow Springs dissolved oxygen meter
Narco Biosystems physiograph MK-III
Harvard Apparatus chart mover 480
Grass Instrument electronic stimulator SMD9
Tekmar strip chart recorder 355
Environmental physiology; Physiological ecology; Metabolism; Respiration; Circulation; Muscle; Biology

OH/CS 697 LOCI/RULE
SER 77-02899
University of Toledo
Department of Industrial Engineering
Toledo, OH 43606
John D. Hansell (419) 537-2412
Introduction of computer graphics into the engineering curriculum
Tektronix 4952 joystick
Tektronix graphics system 4051
Computer; Computer science

OH/IN 698 ISEP
SER 76-13403
Urbana College
Department of Sciences
Urbana, OH 43078
Ross Klinck
Instructional scientific equipment in interdisciplinary science

OH/BZ 699 ISEP
SER 76-12680
Wittenberg University
Department of Biology

Springfield, OH 45501
John B. Hitt (513) 327-7025
Scanning electron microscopy for undergraduate training
ISI scanning electron microscope MSM-5
Polaron specimen coating apparatus E 5000
Samdri critical point drying apparatus PVT-3
Intermediate technology; Self-paced; Technician training; Biology

OH/BZ 700 LOCI/RULE
SER 77-03175
Wittenberg University
Department of Biology
Springfield, OH 45501
Elizabeth E. Powelson (513) 327-7021
Application of television in introductory college microbiology
Panasonic video camera NV-3700EN
Panasonic color control unit WV-3702
Panasonic video camera ac adaptor NV-B50
Sony black and white monitor CVM-1250
Panasonic color monitor TR-920V
Panasonic video cassette recorder NV-9200
Panasonic video cassette recorder NV-9500
Panasonic video cassette recorder NV-9400
Canon video camera lens f2 17-102mm
Panasonic editing controller NV-A950
Audiovisual; Science majors; Biology; Bacteriology

OH/BZ 701 ISEP
SER 77-09710
Wright State University
Department of Microbiology and Immunology
Dayton, OH 45431
Nancy J. Bigley
Instructional scientific equipment in biology

OH/CH 702 ISEP
SER 76-12967
Wright State University
Department of Chemistry
Dayton, OH 45431
James J. Kane (513) 255-4685
Modernization of organic chemistry laboratory experiments
Perkin Elmer infrared spectrophotometer 735B
Hewlett Packard gas chromatograph 5722A
Carver press 2086
Instrumentation; Analysis; Spectroscopy; Chromatography

OH/EN 703 ISEP
SER 77-09351
Wright State University
Department of Engineering
Dayton, OH 45431
George R. Spalding (513) 873-2458 or 873-2403
Small mechanical vibrations laboratory
B and K vibration exciter 4808
B and K exciter control 1047C
B and K power amplifier 2712C
B and K motion analyser 4911C
Engineering

OH/IN 704 LOCI/RULE
SER 78-03300
Xavier University
Department of Biology
Cincinnati, OH 45207
Stanley Hedeen (513) 745-3624
Ascent of man for honors students in non-science majors
Audiovisual; Interdisciplinary

OH/CH 705 ISEP
SER 76-12424
Xavier University
Department of Chemistry
Cincinnati, OH 45207
Robert G. Johnson (513) 745-3352
Nuclear magnetic resonance spectroscopy in the undergraduate chemistry curriculum
Varian nuclear magnetic resonance spectrometer 360A
Varian EM-3630 lock decoupler
Varian EM-3610 oscilloscope
Organic chemistry laboratory; Qualitative organic analysis; Senior research; NMR

OH/EZ 706 ISEP
SER 76-13793
Youngstown State University
Department of Geology
Youngstown, OH 44555
C. Earl Harris (216) 742-3613
Matching funds for purchase of a gravity meter
Scintrex Ltd. gravity meter CG-2G
Earth sciences

OH/EN 707 ISEP
SER 76-13842
Youngstown State University
Department of Mechanical Engineering
Youngstown, OH 44555
Edwin R. Pejack
Acoustics laboratory equipment
B and K sound level meter 2209
Engineering

OH/EN 708 LOCI/RULE
SER 78-00195
Youngstown State University
Department of Chemical Engineering and Materials Science
Youngstown, OH 44555
T. K. Slawecki (216) 742-3000
Process dynamics and control experiment development
Digital computers; Simulation; Computers, analog and digital; Laboratories; Engineering; Analog computers

OKLAHOMA

OK/CH 709 ISEP
SER 76-12819
Bethany Nazarene College
Department of Chemistry
Bethany, OK 73008
Gene E. Heasley
Instructional scientific equipment in chemistry

OK/CH 710 ISEP
SER 76-14104
Murray State College
Department of Science
Tishomingo, OK 73460
Jim Schammerhorn (405) 371-2371 Ext. 63
Laboratory instrumentation for health science chemistry
ChemAnal visible spectrophotometer 9 mod-system
Sargent Welch gel electrophoresis apparatus
Cathode ray tube for demonstration
Ohaus Dial-O-Gram balance CH310
Intermediate technology; Women; Technician training

OK/BZ 711 ISEP
SER 77-09827
Northwestern Oklahoma State University
Department of Biology
Alva, OK 73717
Stephen R. Hensley (405) 327-1700 Ext. 366 or 388
Super-speed centrifuge for molecular biology
Beckman J-21C high speed refrigerated centrifuge
Intermediate technology; Cellular fractionation; Protein analysis; Environmental effects

OK/IN 712 ISEP
SER 76-12634
Northwestern Oklahoma State University
Department of Physics
Alva, OK 73717
Lee R. Matthiesen
Minicomputer applications in science and math instruction
Wang minicomputer 2200 PCS
Wang 40 column line printer
Matrix and advanced programming ROM's for the 2200 PCS
Computer; Pre-college teachers; Computer assisted instruction; Math modeling; BASIC language instruction; Interdisciplinary

OK/MA 713 LOCI/RULE
SER 76-14504
Oklahoma State University
Department of Mathematics
Stillwater, OK 74074
Jeanne L. Agnew (405) 624-5777
Mathematics problems from regional industries for undergraduate majors
Computer; Statistics; Modeling; Report writing; Case studies

OK/EN 714 LOCI/RULE
SER 76-14509
Oklahoma State University
Department of Electrical Engineering
Stillwater, OK 74074
C. M. Bacon (405) 624-5151
Color video tapes made for engineering courses
Sony portable color TV camera DXC-1600
Sony portable color video cassette recorder VO-3800
Sony color video cassette recorder VO-2600
Audiovisual; Freshman motivation; Laboratory instruction

OK/EN 715 LOCI/RULE
SER 77-02384
Oklahoma State University
School of Industrial Engineering
Stillwater, OK 74074
Kenneth E. Case (405) 624-6055
Computer simulated sampling game for study of quality control
Continuing education; Technician training; Acceptance sampling; Cost based sampling; Inspection error; Bayesian decision theory; Engineering

OK/CH 716 LOCI/RULE
SER 78-00694

Oklahoma State University
Department of Chemistry
Stillwater, OK 74074
I. Dwaine Eubanks (405) 624-5921
Restructuring the general chemistry course for engineers

OK/EN 717 ISEP
SER 76-13103
Oklahoma State University
School of Technology
Stillwater, OK 74074
Richard G. Murray (405) 624-5713
Steam power laboratory for technology and engineering
Clayton Co. steam generator E-33
Coppus Engineering steam turbine RLG-12M
Marley Co. cooling tower 4627
Bell and Gossett steam condensor SU 107-2
General Electric Co. steam superheater JG-3807
Energy; Environment; Intermediate technology; Technician training; Exhaust gas analysis; Feed water treatment

OK/BZ 718 ISEP
SER 77-10321
Oklahoma State University
Department of Microbiology
Stillwater, OK 74074
Mark R. Sanborn (405) 624-5565
Centralized tissue culture facility for students in biological sciences
BioQuest laminar flow hood L5325
Barnstead pure water system D1794
Barnstead electric autoclave A 9223-1
Nikon inverted phase contrast microscope MS
LabLine roller culture apparatus 1523
LabLine vip carbon dioxide tissue culture incubator 417
Virology; Immunology; Embryology; Pathogenic microbiology; Cell biology; Multidisciplinary; Independent research; Microbiology; Bacteriology; Biology

OK/BZ 719 LOCI/RULE
SER 76-14505
Oklahoma State University
Department of Biological Sciences
Stillwater, OK 74074
John W. Thornton (405) 624-6820
Optional activities for undergraduate animal biology students
Audiovisual; Environment; Self-paced; Natural history of animals; Reproduction of humans; Field trips; Animal dissection; Health and disease; Laboratory investigation

OK/IN 720 ISEP
SER 76-13408
Oral Roberts University
Department of Natural Sciences
Tulsa, OK 74105
Frank J. Smentowski
Instructional scientific equipment in interdisciplinary sciences

OK/EN 721 ISEP
SER 77-11174
Oscar Rose Junior College
Department of Engineering and Science
Midwest City, OK 73110
Robert Park (405) 737-6611 Ext. 564
Improvement of laboratory experiences in electronics and electromechanical technology
Tektronix TM 504 power module
Tektronix PS 503A triple power supply
Tektronix DC 504 counter timer
Tektronix DM 502 digital multimeter
Tektronix FG 503 function generator
Tektronix PG 028 voltage probe
Technician training; Communications; Pulse and wave shaping; Electronic metrology; Digital electronics; High frequency electronics; Engineering

OK/IN 722 ISEP
SER 76-12823
Saint Gregorys College
Division of Sciences
Shawnee, OK 74801
James S. Meyer (405) 273-9870 Ext. 343
Laboratory simulations in two-year, private liberal arts college
Digital Equipment Corp. minicomputer PDP/8
Operating system software OS/8
Tektronix graphics terminal
Non-science majors; Continuing education; Interdisciplinary

OK/SZ 723 ISEP
SER 76-12156
Southwestern Oklahoma State University
Department of Social Science
Weatherford, OK 73096
Kay Branson (405) 772-6611 Ext. 4209
Computer equipment for undergraduates
Wang 2200 computer
Wang 2244-A card reader

Social sciences

OK/EZ 724 ISEP
SER 76-12802
Southwestern Oklahoma State University
Department of Physics and Geology
Weatherford, OK 73096
Edwin T. Green (405) 772-6611 Ext. 4105
Geology laboratory improvement
Hacker Instruments stereoscopic microscope 271
Hacker Instruments polarizing microscope 610
Alan Gordon Enterprises mirror stereoscope F71
Energy; Environment; Intermediate technology; Non-science majors; Physical geology; Historical geology; Mineralogy; Petrology; Earth sciences

OK/CH 725 LOCI/RULE
SER 78-00297
Southwestern Oklahoma State University
Department of Chemistry
Weatherford, OK 73096
Donald Hamm (405) 772-6611 Ext. 4104
Entry self-study modules for undergraduate chemistry students
Audiovisual; Entry exams

OK/CS 726 LOCI/RULE
SER 77-03030
University of Oklahoma Norman Campus
Department of Electrical Engineering and Computer Science
Norman, OK 73019
Ben M. Huey (405) 325-4721
Minicomputer based simulation programs for digital circuit design
Computer science

OK/MA 727 LOCI/RULE
SER 78-00501
University of Oklahoma Norman Campus
Department of Mathematics
Norman, OK 73019
Harold Huneke (405) 325-4071
Talking pages to supplement large class instruction
3M Co. Sound Page System player 626 AAD
Precalculus; Calculus; Biological sciences; Business; Mathematics

OK/PS 728 ISEP
SER 77-10770
University of Tulsa
Department of Psychology
Tulsa, OK 74104
M. E. Chernovetz (918) 939-6351 Ext. 248
Physiological psychology teaching laboratory for upper division college students
Stoelting Co. student stereotaxic 51204
Stoelting Co. dissecting kit 59004
Stoelting Co. oscilloscope and square wave stimulator
Grass Instrument Co. photostimulator PS-22
Grass Instrument Co. audiomonitor AM-7
Competency-based

OK/EN 729 ISEP
SER 76-12669
University of Tulsa
Department of Chemical Engineering
Tulsa, OK 74104
W. C. Philcon (918) 939-6351 Ext. 389
Chemical engineering laboratory approval
Leeds and Northrup precision millivolt potentiometer 8686
Leeds and Northrup electrolytic resistance indicator 4960
Honeywell Inc. 2 pen strip chart recorder
Precision Electric Inc. K-2 electric steamboiler
Engineering Laboratory Design Inc. chemical reactor multipurpose bench
Mixing Equipment Inc. Lightnin' Mixer NC4
Nalgene 30 gallon polyethylene tanks with lids and stands
Kinetic studies

OK/EN 730 ISEP
SER 77-10311
University of Tulsa
Department of Mechanical Engineering
Tulsa, OK 74104
Kenneth C. Weston (918) 939-6351
Gas turbine and digital data acquisition system
Cussons P9006 two shaft gas turbine
Computer; Energy; Mechanical engineering laboratory; Engineering; Laboratory mechanical engineering

OREGON

OR/BZ 731 ISEP
SER 77-12088
George Fox College
Department of Biology
Newberg, OR 97132
George Dale Orkney (503) 538-9553 Ext. 278
Undergraduate involvement with biological instrumentation
IEC refrigerated centrifuge B-20A

Virtis tissue homogenizer 45
Buchler Polyanalyst disc electrophoresis apparatus 3-1751A
Sartorius top loading balance 2355
Corning pH meter 130
Technician training; Biochemistry; Molecular biology; Biology

OR/EN 732 ISEP
SER 76-12099
Oregon Institute of Technology
Department of Electronics Engineering Technology
Klamath Falls, OR 97601
William P. Grimes (503) 882-6321 Ext. 412
Microprocessors in modeling of electronic industrial controls and instrumentation
Prolog Corp. logic processor sets, power supplies, interface cards
Tektronix graphic terminals
Prolog Corp. PROM programmers
Prolog Corp. system analyzers
Computer; Competency-based; Engineering

OR/EN 733 ISEP
SER 77-10677
Oregon Institute of Technology
Department of Civil Engineering Technology
Klamath Falls, OR 97601
Richard M. Moore (503) 882-6321 Ext. 472
Fluid mechanics laboratory on open channel flow
Armfield Scott open channel flume S4-10/6M
Weir accessories
Venturi flume
Channel obstruction accessories
Spillway analysis accessories
Intermediate technology; Self-paced; Women; Technician training; Civil engineering; Construction technology; Environmental engineering; Mechanical engineering; Engineering

OR/EN 734 LOCI/RULE
SER 78-00049
Oregon Institute of Technology
Department of Civil Engineering Technology
Klamath Falls, OR 97601
Richard M. Moore (503) 882-6321 Ext. 472
Audio tutorial self paced experiments open channel flow
Intermediate technology; Women; Technician training; Civil engineering; Construction technology; Environmental engineering; Mechanical engineering; Engineering

OR/ZZ 735 LOCI/RULE
SER 77-02281
Oregon State University
Department of Foods and Nutrition
Corvallis, OR 97331
Zoe Ann Holmes (503) 754-3551 or 754-2851
Computer simulated laboratory experiments investigating quality characteristics of foods
Computer; Flour mixtures; Fat; Sugar; Candy; Frozen dessert; Meat; Fruits; Vegetables; Eggs; Dairy products; Nutrition; Dietetics

OR/BZ 736 LOCI/RULE
SER 78-01140
Oregon State University
Department of Zoology
Corvallis, OR 97331
John Ruben (503) 754-3703
Collection of fossil vertebrates for use in undergraduate instruction
Fossil preparation equipment
Fossil storage cabinets
Biology

OR/SZ 737 ISEP
SER 77-10248
Oregon State University
Department of Anthropology
Corvallis, OR 97331
Courtland Smith (503) 754-4515
Interactive computer mapping of cultures
Tektronix 4662 interactive digital plotter
Tektronix 4010 computer display terminal
Audiovisual; Computer; Self-paced; Cross cultural comparisons; Human relations area files; Social sciences; Anthropology; Sociology

OR/IN 738 LOCI/RULE
SER 77-03823
Oregon State University
Department of Anthropology
Corvallis, OR 97331
Courtland Smith (503) 754-4515
Noguro subsistence and ecology
Tektronix 4010 computer display terminal
Computer; Energy; Environment; Self-paced; Cultural ecology; Marine cultures; Evolution; Interdisciplinary; Mythical culture

OR/BZ 739 ISEP
SER 77-10337
Portland State University
Department of Biology
Portland, OR 97207
Larry I. Crawshaw
Instructional scientific equipment in biology

OR/EN 740 ISEP
SER 77-11495
Portland State University
Department of Electrical Engineering
Portland, OR 97207
Paul E. Gray (503) 229-4291 or 229-4631
Equipment for teaching of behavior circuits in time domain
Tektronix oscilloscope 5400
Tektronix spectrum analyzer 7613
Tektronix logic analyzer 7D01
Computer; Engineering

OR/CH 741 ISEP
SER 76-13963
Portland State University
Department of Chemistry
Portland, OR 97207
Horace F. White (503) 229-3811
Addition of mass spectrometry to a spectrometric analysis course
Varian Instruments EM 600 mass spectrometer
Competency-based; Continuing education; Infrared spectrometry; Nuclear magnetic resonance spectrometry; Ultraviolet spectrometry; Chemistry

OR/PH 742 ISEP
SER 76-12408
Southern Oregon State College
Department of Physics
Ashland, OR 97520
Gene A. Stringer (503) 482-6476
Computer augmented general physics for undergraduates
Tektronix graphics terminal 4012
Lear Seigler display terminal ADM-3
Teletype printing terminal 43
Harris minicomputer 200
Programming; Modeling; Graphics; Computations

OR/BZ 743 ISEP
SER 76-12670
University of Oregon
Department of Biology
Eugene, OR 97403
Frederick W. Munz
Animal physiology laboratory in a biology core curriculum
Tektronix storage oscilloscopes 5103N/D11 and 5A22N
Grass polygraph 79

OR/CH 744 ISEP
SER 77-10303
Pacific University
Department of Chemistry
Forest Grove, OR 97116
James O. Currie (503) 357-6151
Equipment for upper division undergraduate applied chemical laboratory work
Varian nuclear magnetic resonance spectrometer 360A
Varian atomic absorption spectrometer 375
Varian liquid chromatograph 4000
Technician training; Analytical chemistry; Organic chemistry; Chemistry

OR/CH 745 ISEP
SER 76-13096
Reed College
Department of Chemistry
Portland, OR 97202
L. B. Church (503) 771-1112
Improvement of analytical chemistry capabilities with atomic absorption spectrometry
Instrumentation Labs atomic absorption spectrophotometer 150
Varian strip chart recorder 9176
Hewlett Packard x-y recorder 7035

OR/BZ 746 ISEP
SER 76-13910
Reed College
Department of Biology
Portland, OR 97202
David F. Desante
Instructional scientific equipment in biology

OR/BZ 747 LOCI/RULE
SER 77-02890
Reed College
Department of Biology
Portland, OR 97202
David F. Desante
Educational computer models in biology

OR/IN 748 ISEP
SER 77-10407
Southwestern Oregon Community College
Department of Physical Sciences
Coos Bay, OR 97420

Raymond H. Kelley (503) 888-3234 Ext. 214
Multidisciplinary science study project center for two-year college
Tektronix Inc. graphic computer 4051 option 20
Tektronix Inc. hard copy printer 4610
Mathematics; Chemistry; Biology; Geology; Physics; Sociology; Psychology; History; Interdisciplinary

PENNSYLVANIA

PA/CH 749 ISEP
SER 76-13874
Allegheny College
Department of Chemistry
Meadville, PA 16335
Michael W. Schuyler (814) 724-5363
Instrumental analysis incorporating mass spectroscopy and modular electronic instrumentation
Varian medium resolution mass spectrometer EM-600
McKee Pedersen modular electronic analytical instrumentation
E and L microprocessor MMD-1
Houston dual pen strip chart recorder
McKee Pedersen scanning czerney turner 0.45 meter monochromator
Computer; Intermediate technology; Analytical chemistry; Instrument design; Microprocessor control; Digital electronics; Laboratory automation; Chemistry

PA/BZ 750 ISEP
SER 76-13083
Allegheny College
Department of Biology
Meadville, PA 16335
Glen G. Wurst (814) 724-5360
Ultracentrifuge purchase for molecular biology lecture and laboratory course
Beckman L5-50 ultracentrifuge

PA/BZ 751 LOCI/RULE
SER 78-00211
Allegheny College
Department of Biology
Meadville, PA 16335
Glen G. Wurst (814) 724-5360
Cell biology laboratory improvement project

PA/ZZ 752 ISEP
SER 76-13833
Beaver College
Department of Psychology
Glenside, PA 19038
W. J. Carr
Developing a research-oriented psychobiology program for undergraduates
Westminster marine culture system Aquatron 50PF
Harvard Apparatus modular physiograph system
BRS/LVE human tests systems 800F
Scientific Prototype tachistoscope 800F
Women; Psychobiology; Biopsychology

PA/IN 753 LOCI/RULE
SER 78-00325
Beaver College
Department of Biology
Glenside, PA 19038
Gail W. Haslett (215) 884-3500
Student guide to observational research in animal behavior
Interdisciplinary

PA/PH 754 LOCI/RULE
SER 78-00443
Bucknell University
Department of Physics
Lewisburg, PA 17837
Stephen F. Becker
Integrated physics and mathematics course

PA/PS 755 ISEP
SER 77-10466
Bucknell University
Department of Psychology
Lewisburg, PA 17837
Owen R. Floody (717) 524-1430
Laboratory course in physiological psychology
Coulbourn Instruments modular test cages E10-10
American Optical freezing microtomes 888
Kopf student stereotaxics 400
Cole Parmer Moto-Flex Tools 9829
Biopsychology; Neuroscience

PA/EN 756 LOCI/RULE
SER 78-00146
Bucknell University
Department of Electrical Engineering
Lewisburg, PA 17837
E. Mastascusa (717) 523-1271
Development of a course in engineering creativity
Problem solving; Rational argument

PA/EN 757 ISEP
SER 77-11456

Bucknell University
Department of Electrical Engineering
Lewisburg, PA 17837
Joseph W. Rogers (717) 524-1394
Microprocessor equipment for laboratory use in electrical engineering
Lear Siegler ADM-3A terminal
Microcomputer Products microprocessor equipment
Computer; Digital systems; Signal processing

PA/CH 758 ISEP
SER 76-12433
Bucknell University
Department of Chemistry
Lewisburg, PA 17837
Hans Veening (717) 524-1130
Laboratory improvements in analytical chemistry, biochemistry, and undergraduate research
Princeton Applied Research polarograph 174A
Houston x-y recorder
Aminco Bowman spectrophotofluorometer J4-8202H
Waters universal LC injector U6K
Waters uv absorbance detector 440
Differential pulse polarography; Anodic stripping analysis; Excitation spectra; Fluorescence spectra; Enzyme kinetics; Energy transfer; Fluorescent sulfhydryl reagents; Artificial kidney; HPLC of physiological fluids; Pi-bonded metal complexes

PA/EN 759 ISEP
SER 77-10490
Carnegie-Mellon University
Department of Electrical Engineering
Pittsburgh, PA 15213
Alice C. Parker
Instructional scientific equipment in electrical engineering

PA/PS 760 ISEP
SER 76-13948
Dickinson College
Department of Psychology
Carlisle, PA 17013
Larry A. Engberg (717) 245-1252 or 245-1255
Solid state laboratory for aversive control of animal behavior
Tektronix dual channel storage oscilloscope 5115
Coulbourn shocker scramblers E13-16
BRS/LVE rodent shuttle boxes
Instrumentation; Psychology

PA/EN 761 ISEP
SER 77-11494
Drexel University
Department of Electrical Engineering
Philadelphia, PA 19104
T. Matcovich (215) 895-2250
Thick film hybrid circuit laboratory
Carl Zeiss light section microscope
K and S 484 wedge bonder
Aremco 3100 screen printer
BTU Engineering VQ series belt furnace
Engineering

PA/PH 762 LOCI/RULE
SER 78-00131
East Stroudsburg State College
Department of Physics
East Stroudsburg, PA 18301
Paul N. Houle (717) 424-3350
Self-paced junior/senior level quantum mechanics and statistical mechanics
Competency-based; Keller plan; Physics

PA/SZ 763 LOCI/RULE
SER 77-03252
Franklin and Marshall College
Department of History
Lancaster, PA 17604
Leslie J. Burlingame
Faculty project in the history of science 1750-1900

PA/BZ 764 ISEP
SER 77-11095
Geneva College
Department of Biology
Beaver Falls, PA 15010
Calvin D. Freeman
Laboratory instruction improvement in animal, plant, and human physiology
Arthur H. Thomas Co. Warburg respirometer
Con-Torque power unit
Oxygen analyzer
Organ tissue bath
Oscilloscopes
Health science training; Physiological monitoring; Life support technology; Biology

PA/PS 765 ISEP
SER 77-10370
Gettysburg College
Department of Psychology

Gettysburg, PA 17325
Samuel A. Mudd (717) 334-7161 Ext. 235
Advanced computer assisted information processing laboratory for psychology majors
Applied Science Lab. eye movement monitor Eye Trac 200-2
Narco BioSystems 2-channel physiograph MK-III
Houston Instrument x-y plotter 2200-3-3
E. B. and G. photometer 450
Gerbrands 2-channel tachistoscope

PA/ZZ 766 ISEP
SER 76-12108
Gwynedd-Mercy College
Department of Natural Science
Gwynedd Valley, PA 19437
Mary Paul (215) 646-7300 Ext. 246
Laboratory instrumentation for health science, biology, and related fields
Perkin Elmer 710B recording spectrophotometer
Mettler H78 AR analytic balances
Canon SX-310 calculator
Fisher tissue homogenizer 300
Fisher 4.5 cu. ft. incubator
Intermediate technology; Chemical experiments; Biological experiments; Computer programming; Mathematics students

PA/PH 767 ISEP
SER 77-12068
Lafayette College
Department of Physics
Easton, PA 18042
Winfield Keck (215) 253-6281 Ext. 277
Polaroid interactive lecture system for use in demonstrations center
Polaroid interactive lecture system
Audiovisual; Physics

PA/EN 768 ISEP
SER 76-12737
Lehigh University
Department of Industrial Engineering
Bethlehem, PA 18015
Emory W. Zimmers Jr.
Instructional scientific equipment in industrial engineering

PA/EN 769 LOCI/RULE
SER 77-03440
Lehigh University
Department of Industrial Engineering
Bethlehem, PA 18015
Emory W. Zimmers Jr. (215) 691-7000 Ext. 2276
Computer aided manufacturing for four year engineering college studies
DECWriter computer terminal
Continuing education

PA/CH 770 LOCI/RULE
SER 78-00462
Mercyhurst College
Department of Chemistry
Erie, PA 16501
Jack D. Williams
Bachelor's degree program in forensic science

PA/PH 771 LOCI/RULE
SER 78-01078
Pennsylvania Institute of Technology
Department of Electronics
Upper Darby, PA 19082
Richard B. Thomas Jr. (215) 352-7100 Ext. G
Energy awareness in engineering physics
Intermediate technology; Minority students; Women; Non-science majors; Technician training; MKS units; Thermodynamics; Solar energy

PA/EN 772 ISEP
SER 77-11618
Pennsylvania State University
Department of Civil Engineering
University Park, PA 16802
Thomas D. Larson
Instructional scientific equipment in civil engineering

PA/PH 773 ISEP
SER 76-12891
Pennsylvania State University
Department of Physics
University Park, PA 16802
R. H. Good, Jr. (814) 865-7533
Student participation experiments in elementary physics
Metrologic 620 HeNe laser
Metrologic 60-621 optics teaching and holography kit
Heathkit ETW-3100 transistor trainer
Simpson 260-6 volt and ohm meter
Non-science majors

PA/SZ 774 LOCI/RULE
SER 77-03062
Pennsylvania State University
Department of Anthropology

University Park, PA 16802
Warren T. Morrill (814) 865-2509
Final phase of anthropology 1 course improvement
Elmo projector ST-1200
Audiovisual; Competency-based; Self-paced; Social sciences

PA/EN 775 ISEP
SER 76-12996
Pennsylvania State University
Department of Architectural Engineering
University Park, PA 16802
Luis H. Summers (814) 865-6394
Model testing studio for architectural structures
Models Testing Tables, custom built
Reaction Frames, custom built, for a compression tester
Mechanical and Hydraulic Load cells for a compression tester
Mechanical and Hydraulic load fixtures for a compression tester
Compression tester accessories, custom built
Self-paced; Non-science majors; Architecture; Engineering

PA/EN 776 ISEP
SER 76-13011
Pennsylvania State University Capitol Campus
Department of Water Resources/Engineering Technology
Middletown, PA 17057
C. A. Cole (717) 787-1613
Pilot equipment and instrumentation for engineering technology training
Fisher Accumet 140 pH meters
B and L Spec 700 spectrophotometer
Hewlett Packard 5732 gas chromatograph
Beckman 915A total organic carbon analyzer
Leitz Dialux polarizing microscope
Biospherics pilot activated sludge plant 61
B. F. Goodrich microtower trickling filter
Perkin Elmer atomic absorption spectrophotometer 360
Environment; Chemistry; Water; Pollution

PA/BZ 777 ISEP
SER 77-10692
Spring Garden College
Department of Biochemical Technology
Philadelphia, PA 19118
Edward A. Taylor Jr.
Instructional scientific equipment in biology

PA/EN 778 LOCI/RULE
SER 76-14492
Swarthmore College
Department of Engineering
Swarthmore, PA 19081
H. Searl Dunn
Local course improvement in engineering

PA/CH 779 ISEP
SER 76-13744
Swarthmore College
Department of Chemistry
Swarthmore, PA 19081
James H. Hammons
Modern instrumental methods in the introductory organic chemistry laboratory
Perkin Elmer infrared spectrometer 710B
Carle gas chromatograph 8001
Linear Instruments Co. recorders 255
Fisher digital balances A-200
Polyscience polarimeter SR-6
Organic synthesis; Reaction mechanisms; Organic structure determination

PA/BZ 780 ISEP
SER 76-13085
Swarthmore College
Department of Biology
Swarthmore, PA 19081
Mark Jacobs (215) 544-7900 Ext. 523
Modernized plant physiology laboratory for four-year college
IEC general purpose centrifuge HN-S
Spectronic uv-visible spectrophotometer 21 UV-M
Environator plant growth chamber E-42
Environment; Biology

PA/PH 781 LOCI/RULE
SER 78-00006
Temple University
Department of Physics
Philadelphia, PA 19122
Leroy W. Dubeck (215) 787-7630
Science fiction films for teaching non-science majors
Science fiction films
Continuing education; Pre-college teachers; Physics course; Interdisciplinary; Biology; Chemistry; Audiovisual

PA/CH 782 ISEP
SER 77-11724
Temple University
Department of Chemistry
Philadelphia, PA 19122

George W. Harrington (215) 787-7126
Laboratory Courses in Modern Analytical and Physical Chemistry
Princeton Applied Research Co. electroanalyzers 364
McKee Pedersen Instruments system consoles
E and L Co. digital breadboard systems
Computer; Environment; Intermediate technology; Instrumentation; Trace analysis; Experimental design

PA/CH 783 ISEP
SER 77-10260
Thiel College
Department of Chemistry
Greenville, PA 16125
E. F. Heald (412) 588-7700 Ext. 267
Improving instruction in chemical instrumentation
Varian EM-600 mass spectrometer
DEC laboratory minicomputer MINC-11
DEC graphics terminal
Chemistry

PA/PS 784 ISEP
SER 76-13186
University of Pittsburgh
Department of Psychology
Pittsburgh, PA 15260
Alan M. Lesgold (412) 624-4901
Computer based cognitive psychology laboratory
Digital Equipment Corp. video terminal VT-52
Computer; Non-science majors; Real-time experimentation

PA/PH 785 ISEP
SER 77-10957
University of Scranton
Department of Physics
Scranton, PA 18510
John R. Kalafut (717) 961-7508
Electronics instrumentation laboratory for life sciences students
Pasco 1010A oscilloscope
Pasco electrocardiograph modules
Pasco blood pressure recorder modules
Pasco 8001 operational amplifiers
Pasco 8015 counter and timer
Competency-based; Physics

PA/CH 786 ISEP
SER 76-12052
Westminster College
Department of Chemistry
New Wilmington, PA 16142
Robert P. Desieno (412) 946-8761
Atomic Absorption Spectrophotometry and Polarography in integrated chemistry laboratories
Varian AA-6 atomic absorption spectrophotometer
Sargent Welch XVI recording polarograph
Environment

PA/CH 787 LOCI/RULE
SER 78-00014
Westminster College
Department of Chemistry
New Wilmington, PA 16142
Robert P. Desieno (412) 946-8761
Interfacing a microcomputer with instruments in a chemistry laboratory
North Star MDS-H micro disk system
Altair 8800 microcomputer
MITS RAM 32 kilobytes
Self-paced; Women

PA/BZ 788 ISEP
SER 77-10883
Westminster College
Department of Biology
New Wilmington, PA 16142
John P. Fawley (412) 946-8761 Ext. 326
Expansion of advanced biology laboratory experiences
Narco BioSystems projector physiograph
Narco BioSystems physiotape cassette data recorder
E-C Apparatus vertical gel electrophoresis system
Servomex oxygen analyzer OA-250
Labconco freeze dryer 5
Audiovisual; Physiology

PA/BZ 789 ISEP
SER 76-13858
Widener College
Department of Science and Biology
Chester, PA 19130
Richard St. John (215) 876-5551 Ext. 364
Improvement of laboratory instruction in microbiology, genetics, and physiology
IEC refrigerated centrifuge B-20-A
New Brunswick gyrotary waterbath shaker G 76
Klett Summerson colorimeter
Intermediate technology; Growth dynamics; Metabolism; Biology; Bacteriology

RHODE ISLAND

RI/SZ 790 ISEP
SER 77-11999
Brown University
Department of Anthropology
Providence, RI 02912
Geoffrey P. Moran
Instructional scientific equipment in social sciences

RI/EN 791 ISEP
SER 77-00914
Brown University
Department of Engineering
Providence, RI 02912
A. Nurmikko (401) 863-2869
Laser applications and modern optics
Laser Precision Corp. power meter and radiometer RK 3440
McPherson grating spectrometer EU-700
Spectra Physics He-Ne lasers 142 and 144
Ealing Corp. optical bench components
Datalight Corp. acousto-optic modulator
Electrical engineering; Optics; Lasers; Science majors; Laboratory training; Experimental work; Engineering

RI/PS 792 ISEP
SER 76-13092
Rhode Island College
Department of Psychology
Providence, RI 02908
Allan Fingeret (401) 456-8015
Tachistoscope for undergraduate experimental psychology
Scientific Prototype 2-channel tachistoscope 800-F
Audiovisual; Information processing; Perception; Reading

RI/EN 793 ISEP
SER 76-13043
University of Rhode Island
Department of Civil Engineering
Kingston, RI 02881
E. McEwen (401) 792-2696
Materials testing laboratory for small group instruction
Tecquipment Incorp. strut apparatus SM-5
Tecquipment Incorp. elastic beam apparatus HST-6
Technovate Corp. torsion test system 9041
Technovate Corp. structures test system 9004
Technovate Corp. mechanics of materials system 9014
Technovate Corp. mechanical loading system 9042
Technovate Corp. polariscope 9015
Self-paced; Civil engineering; Materials testing; Bench top equipment; Engineering

RI/BZ 794 ISEP
SER 77-04485
University of Rhode Island
Department of Animal Science
Kingston, RI 02881
T. H. Meade (401) 792-2651
Instructional scientific equipment program
Orion specific ion meter 407
Yellow Springs Instruments dissolved oxygen meter 54RC
Bosch and Lomb spectrophotometer 70-6
Bosch and Lomb binocular microscope BRB321P
Peeco, Inc. Roots air blower AF 2.5 inch frame
Energy; Environment; Fish pathology and physiology; Physiology of fish; Water recycling; Nutrition of fish; Hatchery management; Salmonid culture; Pathology of fish; Biology

SOUTH CAROLINA

SC/EN 795 ISEP
SER 76-13704
Clemson University
Department of Mechanical Engineering
Clemson, SC 29631
Thurman C. Hardin
Instructional scientific equipment in mechanical engineering

SC/BZ 796 ISEP
SER 77-11787
Clemson University
Biochemistry-Biology Program
Clemson, SC 29631
Doris R. Helms (803) 656-2416
Audio-visual assisted introductory biology for science and nonscience majors
American Optical microscopes 150
American Optical microscopes 161
Hitachi portable production camera GI-FP3030A
Bausch and Lomb Spectronic 20 spectrophotometer 8420
Bell and Howell Filmsound movie projector 1574C
Botony; Zoology

SC/PH 797 LOCI/RULE
SER 76-14546
Clemson University

Department of Physics
Clemson, SC 29631
M. J. Skove (803) 656-3417
Use of self-paced instruction in upper level physics
Competency-based

SC/PH 798 LOCI/RULE
SER 77-03389
College of Charleston
Department of Physics
Charleston, SC 29401
Robert J. Dukes Jr. (803) 792-5593
Single Concept Video Tapes and Observational Laboratories for Astronomy
Audiovisual; Non-science majors; Physics

SC/MA 799 LOCI/RULE
SER 78-00335
College of Charleston
Department of Mathematics
Charleston, SC 29401
Brian Wesselink (803) 792-5730 or 792-5569
Computer assisted instruction modules for calculus and linear algebra
Mathematics

SC/BZ 800 ISEP
SER 77-10825
Erskine College and Seminary
Department of Biology
Due West, SC 29639
Francis E. Nussbaum Jr. (803) 379-8865
Research and professional capabilities for cell biology, genetics, microbiology
Beckman J-21-C centrifuge
American Optical Phasestar 10
Wolfe RBKC4 binocular microscopes
Sargent Warburg respiration apparatus S-7490
Ainsworth electronic balance gamma N-IV
Freas precision incubator 31213
Intermediate technology; Competency-based; Premedical studies

SC/CH 801 ISEP
SER 77-11756
Erskine College and Seminary
Department of Chemistry
Due West, SC 29639
Howard E. Thomas (803) 379-8824
Proton magnetic resonance experiments in undergraduate chemistry curriculum
Perkin Elmer nuclear magnetic resonance spectrometer R-24B
Instrumental analysis; NMR spectroscopy; Analytical chemistry; Qualitative analysis

SC/BZ 802 LOCI/RULE
SER 76-14606
Furman University
Department of Biology
Greenville, SC 29613
Lewis P. Stratton (803) 294-2084
Restructuring undergraduate laboratory teaching in biology
Singer Caramate 35 mm sound slide viewer
Audiovisual; Self-paced; Minority students; Women; Non-science majors

SC/EN 803 ISEP
SER 77-11768
Orangeburg Calhoun Technical College
Division of Technology
Orangeburg, SC 29115
Leroy E. McLaurin Sr. (803) 536-0311
Introduction to pulse circuits
Tektronix dual trace oscilloscope T935
Tektronix storage oscilloscope T912
Intermediate technology; Technician training; Electronic switching circuits; Engineering

SC/EN 804 ISEP
SER 76-13048
Piedmont Technical Education Center
Department of Engineering Graphics
Greenwood, SC 29646
John R. McCravy Jr.
Instructional scientific equipment in engineering

SC/BZ 805 ISEP
SER 76-12616
Presbyterian College
Department of Biology
Clinton, SC 29325
James D. Stidham
Instructional scientific equipment in biology

SC/EN 806 ISEP
SER 77-10919
Spartanburg Technical College
Department of Civil Engineering Technology
Spartanburg, SC 29303
Joe C. Shropshire (803) 576-5770
Electronic distance meter used to teach basic surveying
K and E electronic distance meter
Competency-based; Continuing education; Technician training; Distance measurements; Engineering

SC/EN 807 ISEP
SER 76-13299
University of South Carolina
College of Engineering
Columbia, SC 29208
Tim Jur (803) 777-7158 or 777-4185
Development of heat treatment and metallography laboratory
Blue M muffler furnace E55
Leitz metallographic microscope
Leitz stereo microscope
Buhler polishing wheels 47-1850-160
Rockwell belt finishing machine 31-520
Microscopy; Engineering

SC/IN 808 ISEP
SER 76-13982
University of South Carolina at Conway
Department of Marine Science
Conway, SC 29526
R. Dame (803) 347-3161
Undergraduate marine science educational equipment
Martek water analyzer Mark IIB
Raytheon radar 2700
Wildco reversing thermometer W2197
Wildco protected thermometer W2191
Wildco ichthyo-macrozooplankton net 30-EXD
Environment; Interdisciplinary; Fish net

SC/BZ 809 LOCI/RULE
SER 77-03231
Winthrop College
Department of Biology
Rock Hill, SC 29733
Luckett V. Davis (803) 323-2111
Biology learning center primarily for nonscience majors
Quest study carrel CG-55
Audiotronics Corp. cassette player 146
Technicolor 820Z filmloop projector
Olympus camera body OM-1 and F/3.5 macro MC lens
Kodak Ektagraphic slide projector E-2
Audiovisual; Energy; Environment; Self-paced; Human biology

SC/BZ 810 ISEP
SER 76-12835
Winthrop College
Department of Food and Nutrition
Rock Hill, SC 29730
James E. Konlande
Instructional scientific equipment in biology

SOUTH DAKOTA

SD/PH 811 ISEP
SER 76-12729
Augustana College
Department of Physics
Sioux Falls, SD 57102
J. D. Thompson (605) 336-4913
Introductory astronomy teaching aids and laboratory equipment
Criterion RV-6 telescope
Cave Optical Astrola 12.5 inch D telescope
Farquhar 20 inch star globe
Olympus OM-1 camera
Non-science majors; Physics

SD/PH 812 LOCI/RULE
SER 78-00214
Augustana College
Department of Physics
Sioux Falls, SD 57102
J. D. Thompson (605) 336-4913
Microcomputers in liberal arts science curriculum
Intermediate technology; Physics

SD/BZ 813 ISEP
SER 77-12073
Mount Marty College
Department of Biology
Yankton, SD 57078
Maureen Diggins (605) 668-1512
Curriculum development in plant, animal, and microbial physiology
B and L Spectronic 20 colorimeter
Gibson student respirometer
Sargent Welch decade radioisotope scaler
Harvard Apparatus physiograph
Percival Environator growth chamber
Lambda diffusive resistance meter
Dew Point microvoltmeter
Audiovisual; Environment; Pre-college teachers; Women; Non-science majors; Mammalian physiology; Biology

SD/IN 814 ISEP
SER 76-13580
Mount Marty College
Department of Mathematics and Physics
Yankton, SD 57078
Robert J. Hansen
Instructional scientific equipment in interdisciplinary science

SD/CH 815 ISEP
SER 76-12951
Northern State College
Department of Chemistry
Aberdeen, SD 57401
James Fries
Acquisition of a nuclear magnetic resonance spectrometer
Varian nuclear magnetic resonance spectrometer EM300X
Undergraduate; Instruction; Chemistry

SD/EN 816 ISEP
SER 77-10307
South Dakota School of Mines and Technology
Department of Electrical Engineering
Rapid City, SD 57701
M. J. Batchelder (605) 394-2452
Hybrid computer for engineering education
DEC PDP-11/34 digital computer
EAI 2000 analog computer
Electrical engineering; Mechanical engineering; Chemical engineering; Computer science

SD/CH 817 LOCI/RULE
SER 76-14873
South Dakota State University
Department of Chemistry
Brookings, SD 57007
Rolland R. Rue (605) 688-5151
Physical chemistry laboratory experiments for students in life sciences
Cannon Instrument Co. viscometer CUSMDU
Premedical studies

SD/BZ 818 ISEP
SER 76-13189
University of South Dakota
Department of Biology
Vermillion, SD 57069
Max Goldman (605) 677-5211
Endocrine glands workshop and research laboratory
Mettler general purpose balance P163
Fisher direct reading platform animal balance
Searle well-type gamma scintillation counter
IEC centrifuge 3472 HNS
Bausch and Lomb Spectronic 100 spectrophotometer
Fisher Ainsworth electronic balance A200
Environment; Toxicology; Surgical techniques; Biology; Seminar

SD/PH 819 ISEP
SER 76-14074
University of South Dakota
Department of Earth Science and Physics
Vermillion, SD 57069
Gene Mosca (605) 677-5649
Equipment for introductory physics laboratory and demonstrations
Ealing Shive wave machine 16-1117
Ealing demonstration airtable 34-0034
Metrologic 3mW He-Ne laser ME940
Ealing linear air track with counter timers
Fisher Stanai air bearing turntable

TENNESSEE

TN/PH 820 ISEP
SER 76-14535
Belmont College
Department of Physics
Nashville, TN 37203
W. David Driskill (615) 383-7001 Ext. 371
Medical electronic instrumentation for pre-medical students
Ballentine dual trace oscilloscope
Pasco strip chart recorder
Pasco function generator
Pasco mechanical heart simulator
Audiovisual; Intermediate technology; Self-paced; Women; Thermometer; Blood pressure recorder; Laboratory; Electrocardiograph; Physics

TN/CH 821 ISEP
SER 76-10306
Lee College
Department of Natural Science
Cleveland, TN 37311
James Patrick Daugherty (615) 472-2111 Ext. 286
Infrared, visible, ultraviolet spectrophotometers for science and non-science majors
Perkin Elmer infrared spectrophotometer 710
Perkin Elmer visible ultraviolet spectrophotometer 550
Recorder for Perkin Elmer visible ultraviolet spectrophotomer 550
Intermediate technology; Chemistry laboratories; Instrumental analysis; Laboratories

TN/EN 822 ISEP
SER 77-11479
Nashville State Technical Institute
Department of Electrical Engineering Technology
Nashville, TN 37209
Herschel Flannery (615) 741-1224
Laboratory simulation of electric power transmission systems
Multi-AMP SR-51A relay test set
Multi-AMP CS-7A phase shifter
Westinghouse HOK magnet wire
Westinghouse phaseangle meter P1-161
Tachlite 832 tachometer stroboscope
Energy; Technician training; Relay testing and maintenance; Fault studies; Overcurrent relaying; Distance relaying; Generator protection; Transformer protection; Transmission line protection; Engineering

TN/PH 823 ISEP
SER 77-10461
Southern College of Optometry
Department of Biomedical Sciences
Memphis, TN 38104
C. Houston Cobb (901) 725-0180 Ext. 294
Electromagnetic specification laboratory for optometry students
Tektronix radiometer photometer with probes J16
Bausch and Lomb Spectronic 20 spedrophotometer
Physics

TN/PH 824 ISEP
SER 76-12632
Middle Tennessee State University
Department of Chemistry and Physics
Murfreesboro, TN 37130
James M. Cook (615) 898-2522
Health physics laboratory equipment purchase
Diano Co. Minishot II x-ray unit
Digital Equipment DecWriter II computer terminal
Eberline Miniscalar
Victoreen 488-A neutron detector
Victoreen panoramic ion chamber
Computer; Self-paced; Technician training

TN/EN 825 ISEP
SER 77-10423
Tennessee Technological University
Department of Chemical Engineering
Cookeville, TN 38501
William D. Holland (615) 528-3267
Analytical equipment for undergraduate chemical engineering laboratory
Beckman Instruments Acculab IV infrared spectrophotometer
Perkin Elmer Corp. uv-visible scanning spectrophotometer 200
Spectrophotometers

TN/EN 826 ISEP
SER 76-12646
Tennessee Technological University
Department of Civil Engineering
Cookeville, TN 38501
Frank M. Holloway (615) 528-3464
Instructional scientific equipment for transportation engineering materials laboratory
Audiovisual; Competency-based; Intermediate technology

TN/EZ 827 ISEP
SER 77-10674
Roane State Community College
Department of Geology
Harriman, TN 37748
Ronald L. Zawislak
Instructional scientific equipment in earth sciences

TN/SZ 828 LOCI/RULE
SER 78-00176
University of Tennessee at Chattanooga
Department of Sociology and Anthropology
Chattanooga, TN 37401
Larry W. Noyes (615) 755-4411
Computer assisted introductory sociology and research methods
DecWriter hardcopy terminal LA36
SOROC IQ120 CRT terminal
Panasonic 14 inch video monitor TR195VB
Comdata acoustic coupler modems
Social sciences

TN/MA 829 LOCI/RULE
SER 78-00174
University of Tennessee at Chattanooga
Department of Mathematics
Chattanooga, TN 37401
Clinton W. Smullen III (615) 755-4545
Computer assisted instruction modules in elementary algebra
SOROC Technology Computer Terminal IQ120
Computer; Competency-based; Self-paced; Remedial mathematics; Mathematics

TN/EZ 830 LOCI/RULE
SER 78-00197
University of Tennessee at Knoxville
Department of Geography
Knoxville, TN 37916
James R. Carter (615) 974-2418
Computer assisted introduction to thematic maps for beginning students
Color CRT; Geographic maps; Workbook exercises; Earth sciences

TN/CS 831 LOCI/RULE
SER 76-14494
University of Tennessee at Knoxville
Department of Computer Science
Knoxville, TN 37916
Charles E. Hughes/Charles P. Pfleeger (615) 974-5067
Environment simulator for systems software development
Computer; Systems programming; IBM 360 computer; Computer science; Operating systems; Programming tools; Assist-V

TN/PH 832 LOCI/RULE
SER 76-14608
Vanderbilt University
Department of Physics and Astronomy
Nashville, TN 37240
Royal G. Albridge (615) 322-2774
Computer teaching of problem solving in physics
Self-paced

TN/CH 833 LOCI/RULE
SER 77-02777
Vanderbilt University
Department of Chemistry
Nashville, TN 37240
B. A. Hess Jr. (615) 322-2630
Audiovisual prelab demonstrations for organic chemistry
RCA TV monitor JA97W
JCR video player CP5200U
Audiovisual

TN/PS 834 ISEP
SER 76-12795
Vanderbilt University
Department of Psychology
Nashville, TN 37240
Joseph S. Lappin (615) 322-2398
Undergraduate psychology laboratory for experiments with human subjects
Digital Equipment Corp. microcomputer PDP-11/03
ICR Systems response box controller system
Coulbourn Instruments animal test chamber and control equipment
Gerbrands cumulative recorder
Digital Equipment Corp. DECLAB microcomputer system
Digital Equipment Corp. microcomputer board LSI 11/03
Audiovisual; Computer; Experimental psychology; Perception; Information processing; Human learning; Animal behavior

TEXAS

TX/CH 835 ISEP
SER 77-11203
Abilene Christian University
Department of Chemistry
Abilene, TX 79601
Ben Hutchinson (915) 677-1911 Ext. 701
Mass spectrometer with microcomputer interface for undergraduates
Varian mass spectrometer EM-600
Chemistry

TX/SZ 836 LOCI/RULE
SER 77-02353
Dallas County Community College District El Centro College
Social Sciences Division
Dallas, TX 75202
Glenn Currier (214) 746-2338
Experimental and seminar approaches in introductory sociology
Audiovisual; Self-paced; Non-science majors; Social sciences

TX/BZ 837 LOCI/RULE
SER 77-02998
Del Mar College
Department of Biology
Corpus Christi, TX 78404
John M. White (512) 881-6229
Audio tutorial anatomy and physiology laboratory for health sciences
American Optical stereoscope microscopes series forty
Narco Biosystems physiograph accessories
Carolina Biological anatomical models
Carolina Biological disarticulated human skeleton
Audiovisual; Self-paced; Technician training; Biology

TX/CH 838 ISEP
SER 76-13259
Houston Baptist University
Department of Chemistry
Houston, TX 77074
Doris C. Warren (713) 774-7661 Ext. 373
Atomic absorption spectroscopy for analytical chemistry students
Perkin Elmer atomic absorption spectrophotometer 272
Intermediate technology; Technician training; Analytical chemistry techniques; Instrumental analysis; Clinical chemistry techniques; Premedical training; Medical technology students; Industrial technician training

TX/IN 839 LOCI/RULE
SER 77-03190
Houston Baptist University
Department of Chemistry
Houston, TX 77074
Doris C. Warren (713) 774-7661 Ext. 373
Integrated science laboratory module improvement
Milton Roy minipump NS1-33R
Micromeritics Instrument Corp. fixed wavelength UV detector 790
Audiovisual; Computer; Energy; Environment; Non-science majors; Solar energy lab module; Measurement of physiological responses; Leaf taxonomy experiment; Separation science experiment; Measurement based freshman lab; Interdisciplinary

TX/CH 840 ISEP
SER 76-13268
Howard College at Big Spring
Department of Science and Mathematics
Big Spring, TX 79720
Robert J. Seyse (915) 267-6311 Ext. 50
Modernization of the organic chemistry laboratory using instrumental techniques
Beckman Acculab I infrared spectrophotometer
Gow Mac gas chromatograph 64-750
Sauter single pan balance
Rayner Dialdex refractometer

TX/IN 841 LOCI/RULE
SER 77-04036
Howard College at Big Spring
Department of Science and Mathematics
Big Spring, TX 79720
Robert J. Seyse (915) 267-6311 Ext. 50
Individualized mathematics and science instruction
Recordex Superpro 30 cassette duplicator
Audiovisual; Self-paced; Minority students; Non-science majors; Nursing chemistry; Bilingual; Interdisciplinary

TX/PH 842 ISEP
SER 76-06471
Midwestern State University
Department of Technology
Wichita Falls, TX 76309
Robert J. Palma (817) 692-6611
Electronics technology laboratory for a two year degree
Tektronix oscilloscope SC502
Tektronix digital multimeter DM501
Tektronix digital multimeter DM507
Tektronix function generator FG503
Tektronix frequency counter DC503
Competency-based; Non-science majors; Physics

TX/PS 843 ISEP
SER 77-11943
Our Lady of the Lake University of San Antonio
Department of Psychology
San Antonio, TX 78285
Michael E. Campbell (512) 434-6711
Basic laboratory equipment for teaching physiological psychology
Coulbourn operant programming apparatus
David Kopf stereotaxic equipment
Intermediate technology; Minority students; Experimental psychology laboratory

TX/CH 844 ISEP
SER 76-13284
Our Lady of the Lake University of San Antonio
Department of Chemistry
San Antonio, TX 78285
Jane Ann Slater (512) 434-6711 Ext. 270
Improvement of an individualized general chemistry course
Sartorius top loading balances 1106
Mettler analytical balances H 78 AR
Scotsman ice maker SE 75 WSJ
Orion pH meter 301
Competency-based; Minority students; Women

TX/EZ 845 ISEP
SER 77-11222
Rice University
Department of Geology
Houston, TX 77001
Richard E. Casey (713) 527-4885
Undergraduate oceanographic curriculum rice university
Bausch and Lomb Balplan conference microscopes
TV monitor for Zeiss microscope
Martek salinity temperature depth recorder
Yellowstone oxygen meter
Fisher Scientific sonic vibrator

Sediment settling tube, custom built
Audiovisual; Environment; Non-science majors; Technician training; Oceanographic instrument and books; Marine biology and geology; Plankton; Earth sciences

TX/PH 846 ISEP
SER 76-13886
Rice University
Department of Physics
Houston, TX 77001
John Freeman (713) 527-8101 Ext. 3524
Experiments for freshman and sophomore physics labs
Ealing student air table 3400670
Ealing student air gyrascope 1332580
The Nucleus radioactive experiment 500
Ealing force on a conductor balance 30-6308
Mechanics; Radioactivity; Electricity; Magnetism

TX/CS 847 ISEP
SER 77-10251
Rice University
Department of Electrical Engineering
Houston, TX 77001
J. R. Jump (713) 527-8101
Microcomputer system design laboratory
Tektronix 8002 microcomputer development system
Computer; Electrical engineering; Digital design; Computer science

TX/IN 848 LOCI/RULE
SER 78-00285
Rice University
Department of Environmental Science and Engineering
Houston, TX 77001
Mason Tomson (713) 527-8101 Ext. 2392
Measurements in environmental science
Lab-Line Inc. Magnestir magnetic stirring motors
Fisher Acumet pH meter
Water; Chemistry; Biology; Electronics; Automation; Interdisciplinary; Ecology; Pollution

TX/PH 849 ISEP
SER 76-13058
Saint Mary's University of San Antonio
Department of Physics
San Antonio, TX 78284
H. D. Fetzer (512) 436-3233
Modern electronic instrumentation for physical measurements
Pasco counter, timers, power supplies PI8015 and PI8000
Pasco operational amplifiers BE8001
Pasco power amplifier BE8003
Pasco Wheatstone bridge BE8004
Pasco cardiovascular simulator BE8101
Biology majors; Physics

TX/SZ 850 ISEP
SER 77-07191
Southwest Texas State University
Department of Anthropology
San Marcos, TX 78666
Norman M. Whalen (512) 245-2113
Human skeletons and hominid fiberglass casts for physical anthropology
Carolina Biological Supply articulated human skeleton
Carolina Biological Supply disarticulated human skeleton
National Museums of Kenya fiberglass casts of pongids
National Museums of Kenya fiberglass casts of Australopithecines
National Museums of Kenya fiberglass casts of early man
Environment; Technician training; Primate studies; Human evolution; Bone identification; Endocranial volume; Dental arcade of hominids and pongids; Cranial anatomy; Facial architecture of primates; Tooth patterns in primates; Social sciences

TX/EN 851 LOCI/RULE
SER 78-00370
Texas A and M University
Department of Engineering Design Graphics
College Station, TX 77843
John T. Demel (713) 845-4451
Computer aided design in engineering design graphics for freshman
Tektronix graphics terminal 4013
Tektronix electrostatic printer plotter 4610
Summagraphics Bit Pad digitizer
Interfaces to Amdahl computer 470-V6
Information retrieval; Kinematic linkages; Computer libraries for standard parts

TX/EN 852 ISEP
SER 76-13034
Texas A and M University
Department of Civil Engineering
College Station, TX 77843
John B. Herbich (713) 845-4515
Instructional equipment in engineering
Interdata automatic data acquisition system 5/16
Towing carriage, custom built
Tone burst generator, custom built
Krohn Hite variable filter 3103
Hewlett Packard preamplifier HP 462A
Hewlett Packard power amplifier HP 467A
Hewlett Packard oscillator HP 204D
Computer

TX/ZZ 853 ISEP
SER 77-11227
Texas A and M University
Department of Biochemistry and Biophysics
College Station, TX 77843
Jane M. Magill (713) 845-3641
Biochemistry laboratory for radioisotopes in metallic studies
Beckman liquid scintillation spectrometer LS7000T
Chemistry

TX/SZ 854 LOCI/RULE
SER 77-03363
Texas Christian University
Department of Economics
Fort Worth, TX 76129
C. R. Waits (817) 921-7230
Interactive computer game on principles of income distribution, economics
Computer; Community income matrix; Social sciences; Gaming principles

TX/BZ 855 ISEP
SER 76-12505
Texas Lutheran
Department of Biology
Seguin, TX 78155
R. Torgerson (512) 379-4161
Data collection and analysis in the physiology laboratory
Narco Biosystems physiograph recording equipment
Self-paced; Anatomy; Bioelectric measurement; Biology

TX/BZ 856 ISEP
SER 76-12723
Texas Tech University
Department of Biological Sciences
Lubbock, TX 79409
J. Berlin (806) 742-2704
Cell biology laboratory for biology majors
Beckman spectrophotometer 24 with recorder
Olympus phase contrast microscopes BHB and BHC
Biorad electrophoretic apparatus 150A
Buchler density gradient mixer S-24950
Intermediate technology

TX/BZ 857 LOCI/RULE
SER 78-00704
Texas Tech University
Department of Food and Nutrition
Lubbock, TX 79409
Angela R. Boren/Margarette L. Harden (806) 742-3035
Interactive study group instructional strategy for nutritional science
Computer; Non-science majors; Food and nutrition; Laboratory; Bioassay; Animal studies; Biology; Computer assisted

TX/EN 858 LOCI/RULE
SER 78-00353
Texas Tech University
Department of Electrical Engineering
Lubbock, TX 79409
Wm. M. Portnoy (806) 742-3532 or 742-3533
Undergraduate semiconductor device fabrication projects
Solid state electronics; Integrated circuit technology; Engineering

TX/EN 859 LOCI/RULE
EPP 75-17673
Texas Tech University
Department of Electrical Engineering
Lubbock, TX 79409
John F. Walkup/Marion O. Hagler (806) 742-3500
Optical information processing experiments for undergraduates
Computer; Self-paced; Holography; Holographic optical elements; Computer-generated holograms; Digital image processing; Spatial filtering; Engineering

TX/PS 860 ISEP
SER 77-10916
Trinity University
Department of Psychology
San Antonio, TX 78284
Frederick J. Bremner (512) 736-8323
Real time computer aided laboratories in psychology and biology
Lear Siegler dumb terminal with 24-line 1920 character option
Intercolor graphic terminal kits
PROM writer for Intercolor terminals
Memory boards 8K and components for Intercolor terminals
ASCII compatible communications with buffered input for Intercolor terminals
Microcomputer

TX/PH 861 ISEP
SER 77-12014
Trinity University
Department of Physics

San Antonio, TX 78284
Eugene Clark
Instructional scientific equipment in physics

TX/IN 862 LOCI/RULE
SER 76-14507
Trinity University
Department of Psychology
San Antonio, TX 78284
Douglas R. Eddy (512) 736-8326
Real time computer aided laboratories in psychology and biology
Texas Instruments full duplex EIA communications interface module 961642-001
ASCII keyboard KB-7 for Texas Instruments Silent 700 terminal
Texas Instruments PAM/D monitor builder package 942872
Texas Instruments PAM/D compiler 967582 for TI minicomputer 960
Disk cartridge 902-24
Texas Instruments SAL/D compiler 963816
Computer; Color graphics terminals; Minicomputer in education; Interdisciplinary; Graphics terminals

TX/CH 863 ISEP
SER 77-10694
Trinity University
Department of Chemistry
San Antonio, TX 78284
Ben Plummer (513) 736-7523
Mass spectrometry for undergraduates using a Varian EM-600
Varian mass spectrometer EM-600
Varian strip chart recorder A-25
Varian direct probe accessory EM-6190
Varian gas sampling adapter EM-6270
Competency-based; Self-paced; Women; Organic chemistry; Structural analysis; Ionization potential; Fragmentation patterns; Compound identity; Chemistry

TX/CS 864 ISEP
SER 77-10463
University of Houston
Department of Computer Science
Houston, TX 77004
W. K. King (713) 749-2835
Using microcomputers to teach computer organization and programming
Technico microcomputers TK-2-18K
Lear Siegler Inc. CRT terminal ADM 3A
Teletype terminal 43
Digital cassette tape recorder
Laboratory; Computer science

TX/EN 865 ISEP
SER 77-12005
University of Houston
Department of Mechanical Engineering
Houston, TX 77004
T. E. Shoup (713) 749-4459
Computer graphics in mechanical design
Calcomp plotter 1039 with 906 control
Tektronix terminal 4010 with cassette tape
Calcomp software
Computer; Mechanical engineering; Engineering

TX/EN 866 ISEP
SER 76-14531
University of Houston
Department of Electrical Engineering
Houston, TX 77004
Edgar C. Tacker
Instructional scientific equipment in electrical engineering

TX/EN 867 LOCI/RULE
SER 77-03799
University of Houston
Department of Electrical Engineering
Houston, TX 77004
Edgar C. Tacker
Projects in electric energy systems and control engineering

TX/EN 868 LOCI/RULE
SER 78-00500
University of Houston
Department of Mechanical Engineering
Houston, TX 77004
Kenneth J. Waldron (713) 749-4455
Introduction of computer graphics to mechanical design
Engineering

TX/EN 869 ISEP
SER 77-10349
Texas A and I University
Department of Civil and Mechanical Engineering
Kingsville, TX 78363
Fahir Basci
Instructional scientific equipment in civil and mechanical engineering

TX/EN 870 ISEP
SER 76-13008
Texas A and I University
Department of Electrical Engineering
Kingsville, TX 78363
Donald E. Todd
Instructional scientific equipment in electrical engineering

TX/SZ 871 ISEP
SER 76-13251
University of Texas at Austin
Department of Linguistics
Austin, TX 78712
Peter F. MacNeilage
Instructional scientific equipment in social sciences

TX/MA 872 LOCI/RULE
SER 77-03758
University of Texas at Austin
Department of Mathematics
Austin, TX 78712
James W. Vick (512) 471-4257
Survey of applied mathematics for life scientists
Computer; Environment; Biomathematics; Modeling

TX/EN 873 ISEP
SER 76-13626
University of Texas at Austin
Department of Aerospace Engineering and Engineering Mechanics
Austin, TX 78712
J. C. Westkaemper (512) 471-5962
Programmable data acquisition system for undergraduate aerospace engineering laboratories
Hewlett Packard automatic data acquisition system 3052A
Scannivalve pressure multiplexer 48J4
Non-science majors; Aerodynamics

TX/MA 874 ISEP
SER 77-12079
University of Texas at Dallas
Department of Mathematics
Richardson, TX 75080
Henry Fuchs
Instructional scientific equipment in mathematics

TX/PH 875 LOCI/RULE
SER 77-03174
University of Texas at Dallas
Department of Physics
Richardson, TX 75080
Polykarp Kusch Written inquiries only
Physical phenomena demonstrated and interpreted to wide-ranging audience
Ealing electromagnet 32-3121 and power supply 29-9800
Klinger blackboard optics kit 3666P
Ealing slow AC equipment 30-3032, 302-, 3040, 3206
Cenco vacuum and pressure pump 90516-1
Sargent Welch electromagnetic demonstration set 2462
Cenco quartz mercury arc light source 87298
Cenco optical bench and accessories 85801
Continuing education; Non-science majors; Physics

TX/EN 876 ISEP
SER 77-10298
University of Texas at El Paso
Department of Electrical Engineering
El Paso, TX 79968
Yu-Cheng Liu (915) 747-5470
Time-shared microprocessor laboratory for electrical and computer engineering majors
Intel in-circuit emulator MDS-80-ICE
Intel read and write dynamic MOS memory module MDS-016
Infoton CRT terminal 200
Computer; Programming; Minicomputers; Digital system with LSI's

TX/EZ 877 ISEP
SER 76-13942
University Texas of the Permian Basin
Department of Earth Sciences
Odessa, TX 79762
Salvatore J. Mazzullo
Instructional scientific equipment in earth sciences

TX/PS 878 ISEP
SER 77-09565
University of Texas at San Antonio
Division of Social Sciences
San Antonio, TX 78285
R. Baird
Intermediate technology laboratory exercises for beginning psychology majors
Panasonic videotape recorder and playback system NV/WV 3085
Scientific Prototype 2-channel tachistoscope 800F
Lafayette electronic stop clock 54419
Lafayette electronic tachistoscope shutter attachment 43016
Lafayette long tape memory drum 23011

TX/PS 879 ISEP
SER 76-13068
West Texas State University

Department of Psychology
Canyon, TX 79015
Gary W. Guyot (806) 656-2901
Experimental psychology laboratory training program
Coulbourn modular small animal operant test environment
Coulbourn modular laboratory instrument programming system
Coulbourn modular laboratory instrument biofeedback system
Allied Systems Corp. plugboard system
Lafayette electronic tachistoscopic attachment 43016
Intermediate technology; Non-science majors; Technician training; Physiological psychology; Learning; Statistics; Sensation and perception

UTAH

UT/EN 880 ISEP
SER 77-10302
University of Utah
Department of Chemical Engineering
Salt Lake City, UT 84112
Alva D. Baer (801) 581-6918
Improvements in a projects laboratory with a spray dryer
Bowens Engineering Co. laboratory Spray-Aire dryer
Computer; Self-paced; Process control; Chemical process equipment; Engineering

UT/PH 881 ISEP
SER 76-13578
University of Utah
Department of Physics
Salt Lake City, UT 84112
Fritz Luty (801) 581-7211
Laboratory course in modern practical optics
PASCO advanced educational optics system OS-9901
Saertner optical ellipsometer L117
Saertner holographic system R430
Space Optics optical Fourier system
Ealins stress optical analyzer 13-3009
Self-paced; Continuing education; Physics

UT/BZ 882 ISEP
SER 76-12484
Utah State University
Department of Biology
Logan, UT 84322
Neal Van Alfen (801) 752-4100 Ext. 7935
Experimental approach to study of botanical microorganisms
New Brunswick Psycrotherm incubator shaker G27
Integrated Air Systems Inc. laminar flow hoods LH
Zeiss phase contrast microscopes standard 14
Percival environmental chambers I-35LL
Freas low temperature B.O.D. cabinets 815
Audiovisual; Plant pathology; Mycology; Algology; Biology

UT/PH 883 ISEP
SER 77-10881
Weber State College
Department of Physics
Ogden, UT 84408
Robert L. Capener (801) 626-6202 or 626-6163
Microprocessors and microcomputers in undergraduate education
Alpha Microsystems microcomputer AM-100
Heathkit microcomputer system H-11
Heathkit terminal H-9
Printronix printer plotter 300
Tektronix graphics plotter 4662
Cromemco microprocessor microcomputer system Z-80
American Microsystems Inc. microprocessor AMS16800
Technician training; Chemistry; Physics; Electronics engineering technology; Science majors; Computer graphics

VERMONT

VT/CH 884 ISEP
SER 77-10794
Middlebury College
Department of Chemistry
Middlebury, VT 05753
Charles M. Tatum (802) 388-7954
Biochemistry laboratory for undergraduates as a separate course
Bausch Lomb voltage regulated spectronic 20 and 70 spectrophotometer
Gilford uv-visible spectrometer 250
Cold Room
Dupont Sorvall preparative centrifuge RC5-B
Gilson microfractionator FC-100
Chemistry

VT/PH 885 LOCI/RULE
SER-78-00304
Middlebury College
Department of Physics
Middlebury, VT 05753
Richard L. T. Wolfson (802) 388-7956
Simulation experiments for physics foundations course
Computer; Non-science majors; Relativity theory; Quantum theory

VT/CH 886 ISEP
SER 76-13843
Norwich University
Department of Chemistry
Northfield, VT 05663
Joseph Byrne (802) 485-5011 Ext. 245
Uv-vis. spectrophotometer and photofluorometer in undergraduate chemistry
Peakin Elmer double beam vis-uv spectrophotometer 200
Coleman photofluorometer 12c
Analytical chemistry

VT/PH 887 ISEP
SER 77-12095
Norwich University
Department of Physics
Northfield, VT 05663
Raymond Danahy (802) 485-5011 Ext. 244
Nuclear physics laboratory for science and non-science majors
Northern Scientific Co. multichannel analyzer TN1705
Ortec Inc. silicon surface barrier detector BA-017-050-100
Ortec Inc. spectroscopy amplifier 485
Ortec Inc. NIM bin and voltage power supply 401M/402M
Energy; Environment

VT/CS 888 LOCI/RULE
SER 76-14683
University of Vermont and State Agricultural College
Department of Computer Science
Burlington, VT 05401
William L. Fellinger (802) 769-5344
Introductory computer programming with hand-held programmable calculators
Texas Instrument programmable calculator SR-52
Texas Instrument printer PC-100 for programmable calculator
Computer science

VT/CH 889 ISEP
SER 77-10709
University of Vermont and State Agricultural College
Department of Chemistry
Burlington, VT 05401
M. E. Kuehne (802) 656-2594
NMR and mass spectroscopy in organic undergraduate laboratory
Varian NMR spectrometer EM300X
Varian mass spectrometer EM600
Chemistry; Analysis

VT/EN 890 ISEP
SER 76-13970
Vermont Technical College
Department of Civil Engineering Technology
Randolph Center, VT 05061
Ronald S. Nichols
Instructional scientific equipment in civil engineering technology

VT/EN 891 ISEP
SER 77-11773
Vermont Technical College
Department of Electrical Engineering Technology
Randolph Center, VT 05061
Walter Satre (802) 728-3391
Equipment improvement for teaching microprocessor interfacing technology
E and L Instruments Inc. microcomputer interfacing boards MMD-1/M1
Mita Inc. microcomputer Altair 8800 B
Teletype terminal ASR 33
Mita Inc. CRT terminal ADM 3
Superscope audio cassette recorder
E and L Instruments Inc. PROM programmer MMD-PP
Ultraviolet Products Inc. EPROM eraser UVS-11E
Computer; Engineering

VIRGINIA

VA/SZ 892 LOCI/RULE
SER 78-00152
George Mason University
Department of Economics
Fairfax, VA 22030
John V. Wells (703) 323-2284
Economic history from periods of structural economic change
Economic anthropology; Commercial revolution; Industrial revolution; Trustification; Social sciences; Anthropology

VA/CH 893 ISEP
SER 76-11057
James Madison University
Department of Chemistry
Harrisonburg, VA 22801
B. A. DeGraff (703) 433-6246
Mass spectroscopy for undergraduate science majors
Varian mass spectrometer EM-600 with accessories
Chemistry; Analysis

VA/EN 894 LOCI/RULE
SER 78-00340

Old Dominion University
Department of Civil Engineering
Norfolk, VA 23508
R. H. Bigelow (804) 489-6483
Self paced interactive computer graphics instruction in structural engineering
Tektronix graphics terminal 4010-1
Digital DECWriter II hard copy terminal
Texas Instruments Silent 700 portable terminal
Determinate structures; Indeterminate structures

VA/EN 895 ISEP
SER 77-11984
Old Dominion University
Department of Civil Engineering
Norfolk, VA 23508
William A. Drewry (804) 489-6483
Environmental engineering laboratory for civil engineering students
Horizon Ecology ozone generator
Corning pH meter 130
Barnstead electric still A1013
Mettler analytical balance A78AR
American Optical microscopes
Environment; Technician training; Water quality; Wastewater; Ecology

VA/BZ 896 LOCI/RULE
SER 78-00338
Old Dominion University
Department of Biological Sciences
Norfolk, VA 23508
Kneeland K. Nesius (804) 489-6364
Self paced minicourses in biology for the general student
Audiovisual; Computer; Environment; Continuing education; Minority students; Pre-college teachers; Women; Handicapped; Non-science majors; Heredity; Cancer; Birth defects

VA/MA 897 LOCI/RULE
SER 78-00341
Old Dominion University
Department of Mathematics and Computing Science
Norfolk, VA 23508
Philip R. Wohl (804) 489-6524
Mathematical biology for physical science and engineering majors
Biomathematics; Biophysics; Biomedical sciences; Bio-engineering; Biochemistry; Mathematics

VA/CH 898 ISEP
SER 76-12114
Radford College
Department of Chemistry
Radford, VA 24142
Rogers F. Lambert (703) 731-5135
Chemical instrumentation for medical technology students
Gelman densitometer DCD-16
Gelman electrophoresis chamber 51156
Gelman power supply 38520
Gelman sample applicator S1167
Scientific Products Inc. total solids meter B5996
Intermediate technology; Technician training; Chemistry

VA/CH 899 ISEP
SER 77-11239
Roanoke College
Department of Chemistry
Salem, VA 24153
Paul D. Henson (703) 389-2351 Ext. 351
Instrumental analysis for undergraduate chemistry students
Varian mass spectrometer EM 600

VA/SZ 900 LOCI/RULE
SER 77-02431
Sweet Briar College
Department of Sociology
Sweet Briar, VA 24595
George Conklin (804) 381-5455
Improving data skills of sociology students through computer-assisted homework
Techtron dual cassette tape drive 8420
Computer; Self-paced; Women; Non-science majors; Mathematics; Social sciences

VA/IN 901 LOCI/RULE
EPP 75-18555
Sweet Briar College
Environmental Studies Program
Sweet Briar, VA 24595
Langley Wood (804) 381-5511 or 946-7931
Aquatic ecology for liberal arts undergraduate women
Yellow Springs Instruments BOD oxygen probe and adaptor
Protomatic submersible photometer
Trasco polar planimeter 62 0002
Ward's Natural Science aquatic collecting nets
Environment; Technician training; Geology; Hydrology; Biology; Chemistry; Macrobenthic identification; Interdisciplinary; Ecology

VA/EN 902 ISEP
SER 76-10903

University of Virginia
Department of Civil Engineering
Charlottesville, VA 22903
Roy Burke III (804) 924-7464
Hydraulics, hydrology, fluid mechanics experiments for undergraduate civil engineers
Technovate basic hydrology experiment S12
Technovate fluid circuit analog 9012
Technovate properties of fluids and hydrostatics 9092
Environment; Self-paced; Engineering

VA/EN 903 LOCI/RULE
SER 78-00201
University of Virginia
Department of Mechanical and Aerospace Engineering
Charlottesville, VA 22903
R. D. Flack (804) 924-7421
Thermal fluids laboratory sequence
Audiovisual; Competency-based; Heat transfer; Fluid mechanics; Gas dynamics; Thermodynamics; Engineering

VA/BZ 904 LOCI/RULE
SER 77-03105
University of Virginia
Department of Biology
Charlottesville, VA 22903
Richard Mintel (804) 924-3617
Enrichment microseminars for introductory biology students
Hewlett Packard 97 calculator
Hewlett Packard 67 calculator
Computer

VA/BZ 905 ISEP
SER 77-10752
University of Virginia
Department of Biology
Charlottesville, VA 22903
Richard Rodewald (804) 924-3223
Laboratory courses in cell biology with emphasis on immunology
Bausch and Lomb Balplan phase contrast microscope CRBKTLH
IEC refrigerated centrifuge CRU-5000
DuPont Sorvall glass knife breaker
Hitachi uv-vis spectrophotometer 100-2008
Gelman immunodiffusion and immunoelectrophoresis kits
DuPont Sorvall microtome JB-4
Histology; Microbiology; Cell physiology; Biochemistry; Immunochemistry

VA/SZ 906 LOCI/RULE
SER 76-14806
Virginia Commonwealth University
Department of Sociology
Richmond, VA 23284
Allan Schwartzbaum (804) 257-1028
Thematic approach to undergraduate social science curriculum
Sociology; Anthropology; Career planning; Liberal arts; Vocational counseling; Interdisciplinary education; Social problems

VA/CH 907 ISEP
SER 77-10688
Virginia Commonwealth University
Department of Pharmaceutical Chemistry
Richmond, VA 23298
Graham C. Windridge (804) 786-0274
Educating pharmacy students about drug analysis in biological fluids
Turner fluorimeter 110
Gow Mac gas chromatograph 69-150
Haskell chromatography pump 27500-4
Isco uv detector 226
Competency-based; Trace analysis; Chemistry; Drug abuse detection

VA/CH 908 LOCI/RULE
SER 78-00164
Virginia Polytechnic Institute and State University
Department of Chemistry
Blacksburg, VA 24061
Harold M. Bell (703) 961-6689
Physical methods chemistry laboratory with improved data handling techniques
Audiovisual; Computer; Digital electronics; Spectroscopy

VA/EN 909 ISEP
SER 77-10333
Virginia Polytechnic Institute and State University
Department of Engineering Technology
Blacksburg, VA 24061
H. Valenta Jr./Toni Sarkady (703) 951-6625
Instrumentation laboratory
Tektronix scope 475
Tektronix frequency counter DC-502
Tektronix function generator FG504
Tektronix multimeter DM502
Tektronix power supply P5503A
Electrical technology; Engineering

VA/MA 910 LOCI/RULE
SER 77-02439

Virginia Western Community College
Department of Mathematics
Roanoke, VA 24015
Ben F. Zirkle (703) 982-7222
Mathematics for students in the allied health technologies
Audiovisual; Technician training; Nursing; Dental technologists; Radiological technologists

VA/CH 911 ISEP
SER 76-13864
Virginia Wesleyan College
Department of Chemistry
Norfolk, VA 23502
Robert S. Hufstedler
Instructional scientific equipment in chemistry

VA/CS 912 ISEP
SER 77-10921
Virginia Wesleyan College
Department of Mathematics
Norfolk, VA 23502
Percy D. White Jr. (804) 461-3232 Ext. 250
Purchase of computer terminals for instructional purposes
Digital Equipment Corp. DECWriter LA36
Infoton CRT 200
Lear Siegler crt ADM-3A
Datec acoustic coupler 30
Computer; Computer science

VA/CS 913 ISEP
SER 77-11080
Washington and Lee University
Department of Mathematics
Lexington, VA 24450
R. A. Roberts (703) 463-9111 Ext. 330
Microprocessor laboratory paralleling a computer lecture course
Tektronix oscilloscope T922
Computer; Self-paced; Real time control; Memory expansion; Gating circuits; Computer science

VA/CS 914 LOCI/RULE
EPP 75-23218
Washington and Lee University
Department of Mathematics
Lexington, VA 24450
R. A. Roberts (703) 463-9111 Ext. 330
Development of a course in microprocessors
Economy Terminal ET1
Mos Technology Inc. microcomputer KIM-1 with MCS6502 chip
Computer; Computer science

WASHINGTON

WA/BZ 915 ISEP
SER 77-10422
Eastern Washington University
Department of Biology
Cheney, WA 99004
R. J. White
Instructional scientific equipment in biology

WA/MA 916 LOCI/RULE
SER 77-02458
Pacific Lutheran University
Department of Mathematics
Tacoma, WA 98447
Paul B. Liebelt (206) 531-6900 Ext. 1305
Computer generated TV displays for low resolution class-room instruction
DIGILOG addressable computer terminal
Audiovisual; Computer; Mathematics

WA/EN 917 ISEP
SER 77-10356
University of Washington
Department of Mechanical Engineering
Seattle, WA 98195
Jens E. Jorgensen
Instructional scientific equipment in mechanical engineering

WA/CH 918 LOCI/RULE
SER 78-00031
University of Washington
Department of Chemistry
Seattle, WA 98195
E. C. Lingafelter (206) 543-1686
Video tape demonstration for chemistry teaching
Audiovisual

WA/CH 919 ISEP
SER 76-14078
University of Washington
Department of Chemistry
Seattle, WA 98195
Boris Weinstein (206) 543-2100
Spectrophotometers for introductory organic chemistry laboratory
Perkin Elmer infrared spectrophotometer 7278
Perkin Elmer uv spectrophotometer 571
Audiovisual; Computer

WA/BZ 920 ISEP
SER 77-11609
Washington State University
Department of Botany
Pullman, WA 99163
A. J. GilMartin (509) 335-3250
Computerized data analysis for taxonomy, plant identification and systematics
Digital Equipment Corp. DECWriter II computer terminal
Perkin Elmer CRT computer terminal
Mult-Tek OPL interface unit R/S 232 800
Audiovisual; Environment; Intermediate technology; Statistics; Botany; Biology

WA/ZZ 921 ISEP
SER 77-11608
Washington State University
Department of Chemical Engineering
Pullman, WA 99163
Elmer Robinson (509) 335-1526
Undergraduate meteorological laboratory equipment
Bendix Aerovane wind station
Theodolite pilot balloon
Bendix recording rainguage
Environment; Non-science majors; Meteorology; Weather

WA/BZ 922 ISEP
SER 76-12841
Washington State University
Department of Animal Sciences
Pullman, WA 99163
P. L. Senger (509) 335-4280
Physiology laboratory for students in animal sciences
Gilson polygraph recorder ICT-5H
Gilson recording channel IC-MP
Statham pressure transducer P2306
Phippa and Bird square wave stimulator 7092-611
Gilson Biocom force transducer 1030
Domestic livestock; Biology

WA/SZ 923 ISEP
SER 76-13491
Western Washington State College
Department of Economics
Bellingham, WA 98225
E. S. Mayer (206) 676-3911
Purchase of a computer terminal system
Interdata minicomputer 7/32
Ann Arbor CRT terminal
Intertec Superterm high speed teleprinter
Self-paced; Social sciences

WA/CH 924 ISEP
SER 77-10961
Whitworth College
Department of Chemistry
Spokane, WA 99251
Robert D. Bocksch (509) 466-3265 Ext. 269
Organic chemistry course improvement by NMR acquisition
Varian NMR spectrometer T-60
Spin-lock and decoupler accessory for Varian NMR spectrometer
Analysis

WEST VIRGINIA

WV/CS 925 ISEP
SER 76-13502
Salem College
Department of Mathematics
Salem, WV 26426
R. Champagne (304) 782-5241
Computer assisted instruction in physical, social and biological sciences
Digital Equipment Corp. PDP-11/40 minicomputer 11/40-BR
Digital Equipment Corp. KT11-D memory management unit
Digital Equipment Corp. RPR11-AA 20 megabit and disk controller
Digital Equipment Corp. KW11-L line clock
Digital Equipment Corp. QR430-AD RSL5/E operating system
Digital Equipment Corp. M9301-YF bootstrap loader
Digital Equipment Corp. TMB11-MA 800 BPI magnetic tape subsystem
Digital Equipment Corp. KEH-E extended instruction set
Digital Equipment Corp. MF11-WP 32K words of memory
Digital Equipment Corp. MM11-WP 32K words of memory
Computer; Self-paced; Continuing education; Biology; Physics; Mathematics; Computer science; Ecology; Chemistry; Political science; Industrial technology; Psychology

WV/MA 926 LOCI/RULE
SER 76-14601
West Virginia University
Department of Chemical Engineering
Morgantown, WV 26506
G. L. Blackshaw (304) 293-2619
Engineering applications problem modules for undergraduate engineering mathematics programs

Teaching modules

WV/IN 927 LOCI/RULE
SER 78-00084
West Virginia University
Department of Physics
Morgantown, WV 26506
Fred Goldberg (304) 293-6137
Guided design projects for physical science course
Audiovisual; Environment; Non-science majors; Interdisciplinary

WV/CS 928 ISEP
SER 77-10739
West Virginia Wesleyan College
Department of Mathematics
Buckhannon, WV 26201
E. Robert Anderson
Instructional minicomputer to support computer science and other programs
Digital Equipment Corp. PDP-11/34 minicomputer
Computer; Non-science majors

WV/CH 929 ISEP
SER 76-12829
West Virginia Wesleyan College
Department of Chemistry
Buckhannon, WV 26201
Allen T. Hamner (304) 473-8356
Combustion and solution calorimetry in undergraduate organic chemistry
Parr oxygen bomb calorimeters
Energy; Environment; Coal chemistry; Fuel analysis; Fossil fuels

WV/CH 930 ISEP
SER 76-12768
Wheeling College
Department of Chemistry
Wheeling, WV 26003
Chester A. Giza
Instructional scientific equipment in chemistry

WISCONSIN

WI/PH 931 ISEP
SER 77-11429
Beloit College
Department of Physics
Beloit, WI 53511
Robert Garrett (608) 365-3391
Modern optics and laser physics laboratory for four-year college
Gaertner holography system R-530
Spectra Physics laser spectrum analyzer 450-03
Oriel resonator mirrors
Spectra Physics laser power meter 404
Spectra Physics 5-mwatt laser 120
Fourier transform spectroscopy; Schlieren system; Photometer scanner; Image intensifier; Spatial filter equipment; Crystal optics materials; Dye laser system

WI/CH 932 ISEP
SER 77-08776
Carroll College
Department of Chemistry
Waukesha, WI 53186
Richard J. Watkins (414) 547-1211
Nuclear magnetic resonance spectroscopy for monitoring individual chemistry projects
Perkin Elmer nuclear magnetic resonance spectrometer R-24B
Chemistry; NMR

WI/MA 933 ISEP
SER 77-10409
Lakeland College
Department of Mathematics
Sheboygan, WI 53081
Robert Overton
Instructional scientific equipment in mathematics

WI/PH 934 LOCI/RULE
SER 78-00009
Lawrence University
Department of Physics
Appleton, WI 54911
David M. Cook (414) 739-3681 Ext. 484
Video taped problem solutions for introductory physics
Audiovisual

WI/BZ 935 ISEP
SER 77-11407
Lawrence University
Department of Biology
Appleton, WI 54911
M. Egan
Comparative physiology laboratory instrumentation for a liberal arts college
Tektronix oscilloscopes 5110
Narco Biosystems physiograph chart recorder
Nikon stereo microscope
Grass preamplifiers P-15 and F-18

Intermediate technology; Biology

WI/CH 936 ISEP
SER 77-10245
Lawrence University
Department of Chemistry
Appleton, WI 54911
Jerrold Lokenagard (414) 739-3681 Ext. 475
Undergraduate use of a mass spectrometer in organic chemistry
Varian mass spectrometer EM 600
Spectroscopy

WI/EN 937 LOCI/RULE
SER 78-00450
Marquette University
Department of Electrical Engineering
Milwaukee, WI 53233
Lawrence Cheung (414) 224-6972
Advanced digital design laboratory for computer engineering students
Intel microprocessor development kit SDK 85
Computer

WI/ZZ 938 ISEP
SER 77-11924
Milwaukee Area Technical College
Department of Architectural Technology
Milwaukee, WI 53202
Hall Smith (414) 278-6483
Computer graphics for architectural technicians
Digital Equipment Corp. graphics terminal GT42
Calcomp plotter 1037
Drawings; Architecture; Data bases; Drafting

WI/PH 939 ISEP
SER 76-12519
Milwaukee School of Engineering
Department of Physics
Milwaukee, WI 53201
M. Bushner (414) 272-8720 Ext. 372
Update of holographic laboratory equipment for engineering technology students
C. W. Radiation 4.5 watt HeNe laser
S and M School Instrument Div. supersensitive photometer 102
Byron Ellis Assoc. 3ft. by 4ft. holographic table
Byron Ellis Assoc. beam deflectors
Byron Ellis Assoc. front surfaced mirror
Byron Ellis Assoc. plate holder
Audiovisual; Technician training; Optics; Lasers; Physics

WI/BZ 940 ISEP
SER 76-13501
University of Wisconsin - La Crosse
Department of Biology
La Crosse, WI 54601
Robert M. Burns
Instructional scientific equipment in biology

WI/ZZ 941 ISEP
SER 77-10947
University of Wisconsin-Madison
Department of Forestry
Madison, WI 53706
Ronald L. Giese (608) 262-1780
Interactive timesharing computing environment for forest science instruction
Digital Equipment Corp. PDP 11/34A computer
Digital Equipment Corp. disk drive units RL01
Digital Equipment Corp. dual floppy disk drive
Computer; Environment; Continuing education; Women; Simulation; Tutoring; Programming; Resource management

WI/EN 942 LOCI/RULE
SER 77-02455
University of Wisconsin-Madison
Department of Electrical and Computer Engineering
Madison, WI 53706
John G. Webster (608) 263-1574
Slide and tape programs for medical instrumentation
Audiovisual; Engineering

WI/ZZ 943 LOCI/RULE
EPP 75-10118
University of Wisconsin-Milwaukee
Department of Psychology
Milwaukee, WI 53201
Harry L. Madison (414) 963-4747
TV computer graphics in large lecture classes
Digi-Log Telecomputer II terminal
Digi-Log 5in. portable video monitor with case
Audiovisual; Non-science majors

WI/PH 944 ISEP
SER 77-11781
University of Wisconsin-Oshkosh
Department of Physics and Astronomy
Oshkosh, WI 54901
Daniel Goldthwaite (414) 424-4431

Demonstration and laboratory equipment for acoustics and electronics
Tektronix oscilloscope 7603
TEAC tape recorder A-3340S
Pasco dual function generator 9301
Pioneer head phones monitor 10
Non-science majors; Technician training; Physics

WI/EN 945 ISEP
SER 76-13648
University of Wisconsin-Parkside
Department of Engineering Technology
Kenosha, WI 53141
Dennis R. Stevenson
Instructional scientific equipment in engineering technology

WI/IN 946 LOCI/RULE
SER 77-03836
University of Wisconsin-Parkside
Science Division
Kenosha, WI 53141
Edward P. Wallen (414) 553-2446
Microcomputer applications and affinity chromatography for science undergraduates
Processor Technology microcomputer SOL
North Star floppy disk storage
LKB Instruments fraction collector
Chemistry; Microprocessor; Biological rhythms; Interdisciplinary; Biology; Biochemistry

WI/EN 947 LOCI/RULE
SER 77-03133
University of Wisconsin-Platteville
Department of Mining and Civil Engineering
Platteville, WI 53818
Richard L. Sanford (608) 342-1554
Implementation of interactive computer graphics in undergraduate engineering education
Terak graphics computer system 8510/a
Audiovisual; Intermediate technology; Competency-based; Civil engineering; Mining engineering; System design

WI/EN 948 ISEP
SER 77-11946
University of Wisconsin-Platteville
Department of Civil Engineering
Platteville, WI 53818
Richard Wetzel (608) 342-1542
Improvement of stereoplotter for engineering students
Balplex stereo image alternator
Civil engineering; Photogrammetry

WI/IN 949 ISEP
SER 76-12088
University of Wisconsin-River Falls
Department of Plant and Earth Sciences
River Falls, WI 54022
William S. Cordua
Instructional scientific equipment in interdisciplinary science

WI/IN 950 LOCI/RULE
SER 76-14565
University of Wisconsin-Superior
Center for Advancement of Science Education
Superior, WI 54880
Charles R. Barman (715) 392-8101 Ext. 375
Bioethics course for undergraduate non-science majors and the public
Audiovisual; Interdisciplinary; Ethics; Animal research; Human research

WI/IN 951 ISEP
SER 77-12081
University of Wisconsin-Whitewater
Department of Geography and Geology
Whitewater, WI 53190
Frank R. Luther (414) 472-1093
X-ray diffraction unit for geology, physics, and chemistry
Phillips diffraction system PW-1720
Phillips diffractometer goniometer and accessories
Phillips copper and chromium x-ray tubes
Phillips DeBye-Scherrer cameras
Phillips Laue camera
Phillips data measuring system
Technician training; Mineralogy; Optics; Crystallography; Stratigraphy; Interdisciplinary

WI/BZ 952 ISEP
SER 77-10664
Viterbo College
Department of Biology
La Crosse, WI 54601
James A. Slock (608) 784-0040 Ext. 130
Fluorescent microscope for laboratory work in microbiology and immunology
Zeiss transmitted fluorescent microscope
Zeiss epi fluorescence illuminator
Zeiss fluorescence filters
Medical technology; Biology

WYOMING

WY/EN 953 ISEP
SER 76-15374
University of Wyoming
Department of Engineering Science
Laramie, WY 82071
Leonard B. Baldwin Jr. (307) 766-5287
Demonstrations and interdisciplinary laboratories in engineering science
Scott Armfield Reynolds apparatus F-5
Scott Armfield hydraulic bench F1-10
Scott Armfield flow visualization table 9045
Lindberg heat treating furnace 53000
Ealing air table 34-0000
Competency-based; Statics; Dynamics; Mechanics of materials; Properties of materials; Fluid mechanics

WY/BZ 954 ISEP
SER 77-11601
University of Wyoming
Department of Zoology and Physiology
Laramie, WY 82071
Harold Bergman (307) 766-6265
Instrumental and computational methods in biology
Sargent Welch Co. recorders
Sargent Welch Co. pH meters
Sargent Welch Co. Bausch and Lomb spectrophotometers
Lear Siegler Co. CRT terminals ADM 3A
Texas Instruments calculators TI59
Audiovisual; Computer

WY/SZ 955 LOCI/RULE
SER 77-03819
University of Wyoming
Department of Political Science
Laramie, WY 82071
Kenyon N. Griffin
Learning modules on Wyoming politics

WY/CS 956 LOCI/RULE
SER 78-00439
University of Wyoming
Department of Computer Science
Laramie, WY 82071
David E. Winkel
Computer science student computer laboratory

PUERTO RICO

PR/CH 957 ISEP
SER 76-14668
Catholic University of Puerto Rico
Department of Chemistry
Ponce, PR 00731
Marcelina V. DeSantiago
Instructional scientific equipment in chemistry

PR/CH 958 LOCI/RULE
SER 77-02299
Inter American University of Puerto Rico
Department of Chemistry
San Juan, PR 00936
Glenn R. Price
Video tapes for curriculum development in chemistry

PR/BZ 959 ISEP
SER 77-11630
Inter American University of Puerto Rico Bayamon Branch
Department of Natural Sciences
Bayamon, PR 00619
Edmundo G. Hart
Individualized laboratory oriented biology and chemistry for freshman students
Sartorious analytical balances 2842 SR
Sartorious top-loading balances 2354
Sartorious top-loading balances 1103
American Optical microscope 160
American Optical stereoscopic microscope
American Optical zoom stereoscopic microscope
Spectronic 20 apparatus
Self-paced; Technician training

PR/PS 960 LOCI/RULE
SER 76-14580
Inter American University of Puerto Rico San German Campus
Department of Psychology
San German, PR 00753
Iqnacio Cintron (809) 892-1383
Personalized system of instruction for general psychology in spanish

PR/SZ 961 ISEP
SER 76-13731
Inter American University of Puerto Rico San German Campus
Department of Anthropology
San German, PR 00753
Frank Fernandez
Instructional scientific equipment in social sciences

APPENDIX

TABLE I: Summary of Included LOCI & ISEP Awards by Discipline

Discipline	LOCI/RULE		ISEP		TOTALS			
	#	$	#	$	#	$	Avg. Award	% of Awards
Biology/Life Sciences	42	647,500	134	1,290,700	176	1,938,200	11,013	18.3
Chemistry	48	704,100	97	785,300	145	1,489,400	10,272	15.1
Earth Sciences	8	126,700	43	281,000	51	407,700	7,994	5.3
Engineering Sciences	61	1,133,800	121	1,457,900	182	2,591,700	14,240	18.9
Interdisciplinary/ Multidisciplinary	59	900,400	60	623,900	119	1,524,300	12,809	12.4
Mathematics (including Computer Science)	43	750,500	35	367,600	78	1,118,100	14,335	8.1
Physics/Astronomy	43	633,800	70	531,600	113	1,165,400	10,313	11.8
Psychology	7	92,450	40	347,300	47	439,750	9,356	4.9
Social Sciences	32	542,900	18	129,900	50	672,800	13,456	5.2
TOTALS	343	5,532,150	618	5,815,200	961	11,347,350	11,808	100.0

TABLE II: Summary of Included LOCI & ISEP Awards by Region

Region	LOCI/RULE			ISEP			ALL AWARDS		
	#	$	Avg. Award	#	$	Avg. Award	#	$	Avg. Award
New England	23	354,700	15,422	55	575,000	10,455	78	939,700	11,919
Mid-Atlantic	63	1,055,500	16,754	89	789,800	8,874	152	1,845,300	12,140
South Atlantic	39	553,700	14,197	77	693,700	9,009	116	1,247,400	10,753
East South Central	22	297,600	13,527	42	315,300	7,507	64	612,900	9,577
West South Central	30	503,300	16,777	61	566,800	9,272	91	1,070,100	11,759
East North Central	67	1,152,350	17,199	109	1,079,800	9,906	176	2,232,150	12,683
West North Central	45	738,000	16,400	67	583,900	8,715	113	1,431,900	11,803
Mountain	22	373,300	16,968	47	498,300	10,602	69	871,600	12,632
Pacific	30	478,300	15,943	68	675,000	9,926	98	1,153,300	11,678
Puerto Rico	2	25,400	12,700	3	37,600	12,533	5	63,000	12,600
TOTALS	343	5,532,150	16,129	618	5,815,200	9,410	961	11,347,350	11,808

TABLE III: Characteristics of Students Benefiting from Included LOCI & ISEP Awards

(Based on Project Directors' Estimates)

	Raw #	Average # per project per year (Raw # + 804 respondent projects)	%of Student Participants
All Students	166,142	206.6	100.0
Science Majors	90,820	113.0	54.7
Majors in Non-Science Disciplines	60,556	75.3	36.4
Undecided/ Undetermined Majors	14,766	18.4	8.9
Male Students	122,522	152.4	73.8
Female Students	43,620	54.3	26.3
Minority Students	20,112	25.0	12.1
Physically Handicapped Students	1,964	2.4	1.2

TABLE IV: Project Directors' Award Experience*

	Number of Project Directors	%of Total
All Respondents	804	100.0
First Outside Award	233	29.0
First Federal Award	277	34.5
First NSF Award	395	49.1

*excluding scholarships and fellowships

DIVISION OF SCIENCE EDUCATION RESOURCES IMPROVEMENT
UNDERGRADUATE INSTRUCTIONAL IMPROVEMENT PROGRAM

NATIONAL SCIENCE FOUNDATION
Washington, D.C. 20550

An Index to Science Course Developments

The Foundation is planning to publish an Index to Science Course Development projects that have been supported by the Restructuring the Undergraduate Learning Environment (RULE), Local Course Improvement (LOCI), and Instructional Scientific Equipment (ISEP) Programs in recent years. This document will be a ready-reference to current activities across the Nation in undergraduate science education, of great potential interest to the academic community as well as to NSF and other Federal program officers and policymakers. It will enable faculty who wish to improve their courses to benefit from the resources and experience generated under NSF-supported instructional activities. Prospective purchasers of instructional equipment, for example, will be able to seek advice about scientific and educational instrumentation available from a variety of manufacturers. Science faculty, especially those from smaller or more isolated campuses, will know where to seek technical information and informal review of their curriculum improvement plans. We are seeking your help in this undertaking.

We appreciate and thank you in advance for your cooperation in returning the attached questionnaire within one week of receiving it, and for your generosity in responding to inquiries about your project that result from the publication of the Index. Your participation is, however, voluntary. Your grant and your relationship with the Foundation will not be affected by your response or nonresponse to the questionnaire. If for any reason you cannot or do not wish to be contacted for information about the activities carried out under your grant, please signify this by checking the appropriate box in the questionnaire and omitting your telephone number from the requested information. Although such projects will be listed in the complete roster of awards at the back of the publication, no reference to them will appear in the main index. We hope to receive instructions and up-to-date information from every project director, but in the absence of a response will use information presently in our files regarding name, address, and project title in preparing the general roster.

If you agree to be contacted by users of the Index, the information you provide will be indexed by each of the keywords in the title and by the additional keywords you supply. *Please read all instructions carefully.* They are designed to ensure that the resulting publication contains a maximum of useful information, arranged in a way that will be most helpful to you and other users.

In addition, we are asking for some project information that will appear in the published index in summary form. This will help the NSF to better understand some effects of its awards, and here too, we thank you most sincerely for your assistance.

Please return your completed questionnaire in the enclosed postage-free envelope. Do not include correspondence with the NSF staff in the envelope, but instead direct all inquiries about the questionnaire or the Index to the above Washington, D.C. address, or telephone (202) 282-7751.

Again, many thanks for your help in this important undertaking.

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Form Approved
OMB No. 099-S78015

NATIONAL SCIENCE FOUNDATION

Accession No.
(for office use only)

UNDERGRADUATE INSTRUCTIONAL IMPROVEMENT PROGRAM
PROJECT QUESTIONNAIRE

May 1, 1978

Please type or print all answers
Fill out all boxed ☐ sections
Read instructions for each section carefully.

Section I

Please check one: ISEP ☐ LOCI/RULE ☐

NSF Project Number: _____

Institution: _____

Department: _____

City, State, Zip: _____

Project Director's Name _____

Check one:
Inquiries about the project are invited ☐
Index users are requested not to inquire about the project ☐

If inquiries are invited, please supply Project Director's Office Telephone Number _____

Check the ONE category which BEST classifies the project:

- ☐ BZ - Biology
- ☐ CH - Chemistry
- ☐ CS - Computer Science
- ☐ EN - Engineering
- ☐ EZ - Earth Sciences
- ☐ IN - Interdisciplinary
- ☐ MA - Mathematics
- ☐ PH - Physics
- ☐ PS - Psychology
- ☐ SZ - Social Sciences
- ☐ ZZ - Other

Section II – Project Title

Instructions: In the boxed space below, please provide a title that describes the actual project (not necessarily the title submitted with your original proposal).
Use these criteria:

- NINE WORD LIMIT (hyphenated words count as one word)
- Avoid articles, prepositions, etc., to the extent possible.
- Try to avoid such words as "development" and "course" which apply to most projects.
- Include as much information as possible about disciplines, target students, activities, and the like.
- Check the "Keyword Bank" in Section IV, below, for terms that may apply to your project – if appropriate, use those terms rather than synonyms in your title.

Examples: (1) Computer-Assisted Introductory Biology for Pre-College Teachers.
(2) Self-Paced Engineering Technology Laboratory for Two-Year College.

Title: _____

_____

Accession No. (for office use only)	149

Section III – Equipment

INSTRUCTIONS: In the numbered spaces immediately following, separately list each of the MAJOR items of equipment purchased as a part of your project. Include brandname (or manufacturer), generic name of the item and model number, if any, for each listing. Do not include information about the number of units of identical equipment purchased. It is not necessary to include all equipment acquired in connection with your project – select those likely to be of most interest to other faculty.

LIMITS:
- NINE words per equipment item (hyphenated words count as one word)
- The total number of separate items listed or checked off in Sections III and IV combined should not exceed about 12. If more space is needed for listing equipment, attach a separate sheet labeled "Section III - Equipment" and staple to questionnaire.

EXAMPLES: (1) Horowitz Company Infrared Spectrophotometer 410A.
(2) Teknico Graphic Computer Terminal LS2270.

(1)
(2)
(3)
(4)
(5)

Section IV – Additional Keywords

INSTRUCTIONS:

(1) Check off all terms listed below in the Key Word Bank which describe a significant emphasis of your project except those already in your title or equipment list.

KEY WORD BANK

- ☐ Audiovisual
- ☐ Computer
- ☐ Energy
- ☐ Environment
- ☐ Intermediate Technology
- ☐ Competency-Based
- ☐ Self-Paced
- ☐ Continuing Education
- ☐ Minority Students
- ☐ Pre-College Teachers
- ☐ Women
- ☐ Handicapped
- ☐ Non-Science Majors
- ☐ Technician Training

(2) In the numbered spaces below, list additional words and compact phrases which describe your project but which were not already used in your title, equipment list, or the Keyword Bank.
- Include names of disciplines and sub-disciplines, if appropriate.
- Avoid synonyms of terms in Title or Keyword Bank.
- Remember that the total number of separate items listed or checked off in this and the previous section should be no more than about 12.

(1)	(6)
(2)	(7)
(3)	(8)
(4)	(9)
(5)	(10)

Section V – Survey

Answers to the following questions will enable NSF staff to ascertain some effects of awards and will be distributed in tabular form only, not associated with individual projects. Please estimate answers if exact figures are unavailable.

Please circle one to indicate project category:

RULE '76 LOCI '77 LOCI '78 ISEP '76 ISEP '77

1. We are always pleased to learn of dissemination activities that result from your award. Please list any actual or anticipated publications, papers delivered, panel discussions and other non-local activities that are or will be a direct result of your project (not necessarily during the term of the grant). Please indicate dates and bibliographic details.

2. When fully implemented, your project and related activities will benefit how many students per year? _____

   Of these what percentage are science majors? _____

   % majors in non-science disciplines? _____

   % minority students (Black, Hispanic, American Indian)? _____

   % physically handicapped students? _____

   % women? _____

3. Please check all applicable boxes:
   (Do not include scholarships and fellowships).

   This was my first award from a source outside my own institution. ☐

   This was my first Federal award. ☐

   This was my first NSF award. ☐

Thank you! We appreciate your time and the contributions you are making through your NSF project to science education.

Mail questionnaire in the postage-free envelope provided, or send to: Undergraduate Instructional Improvement, National Science Foundation, P.O. Box 3150, Columbus, Ohio 43210.

USAGE REPORTING

As part of the impact assessment of the Guide, usage data are needed. Persons who find the book useful are asked to make this known to the National Science Foundation via the attached postcards. Please fill out and mail a card for each instance in which assistance has been given or received as a consequence of the Guide. Please do this immediately following contact. Others with observations on the Guide are also invited to use the cards to make their views known to the Foundation.

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